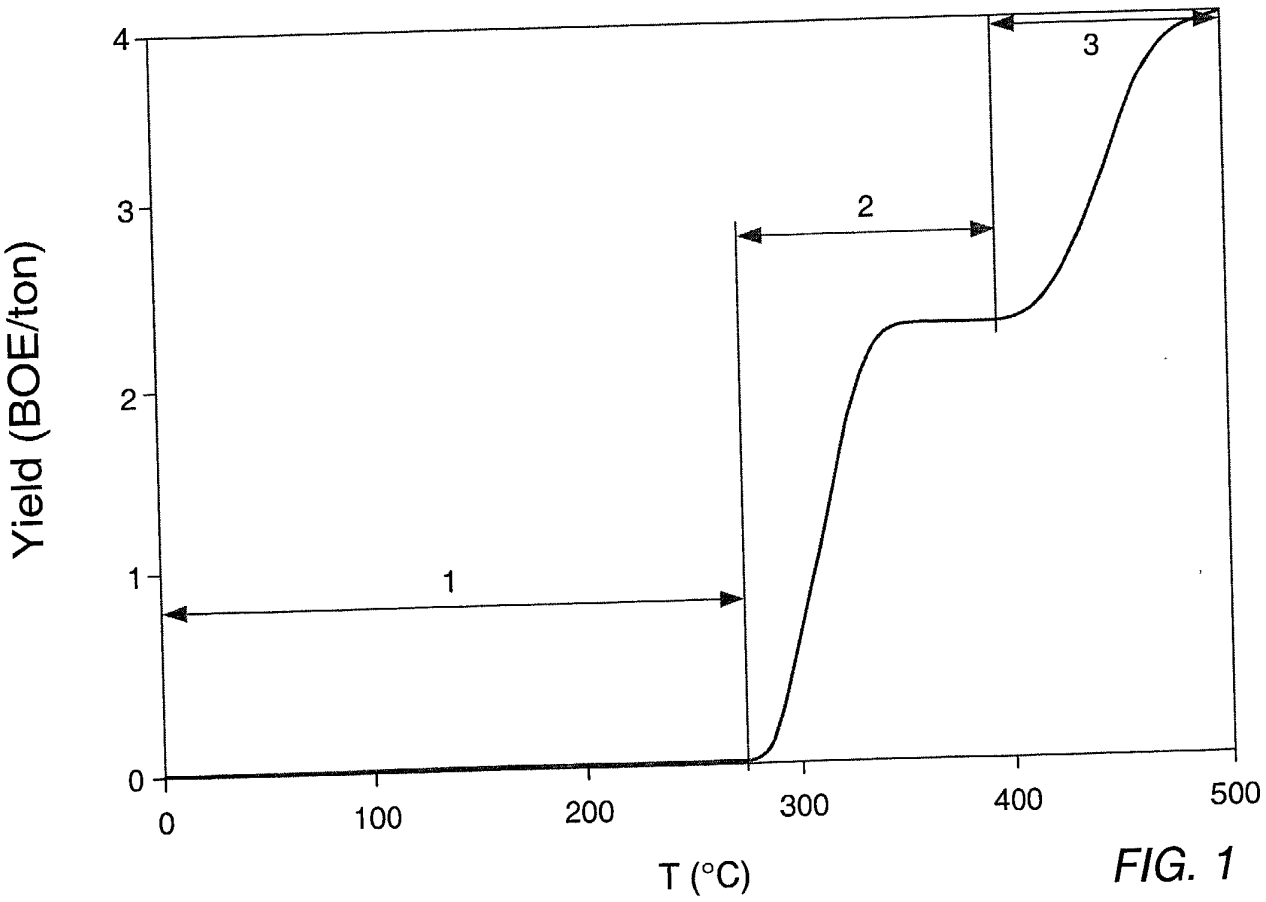
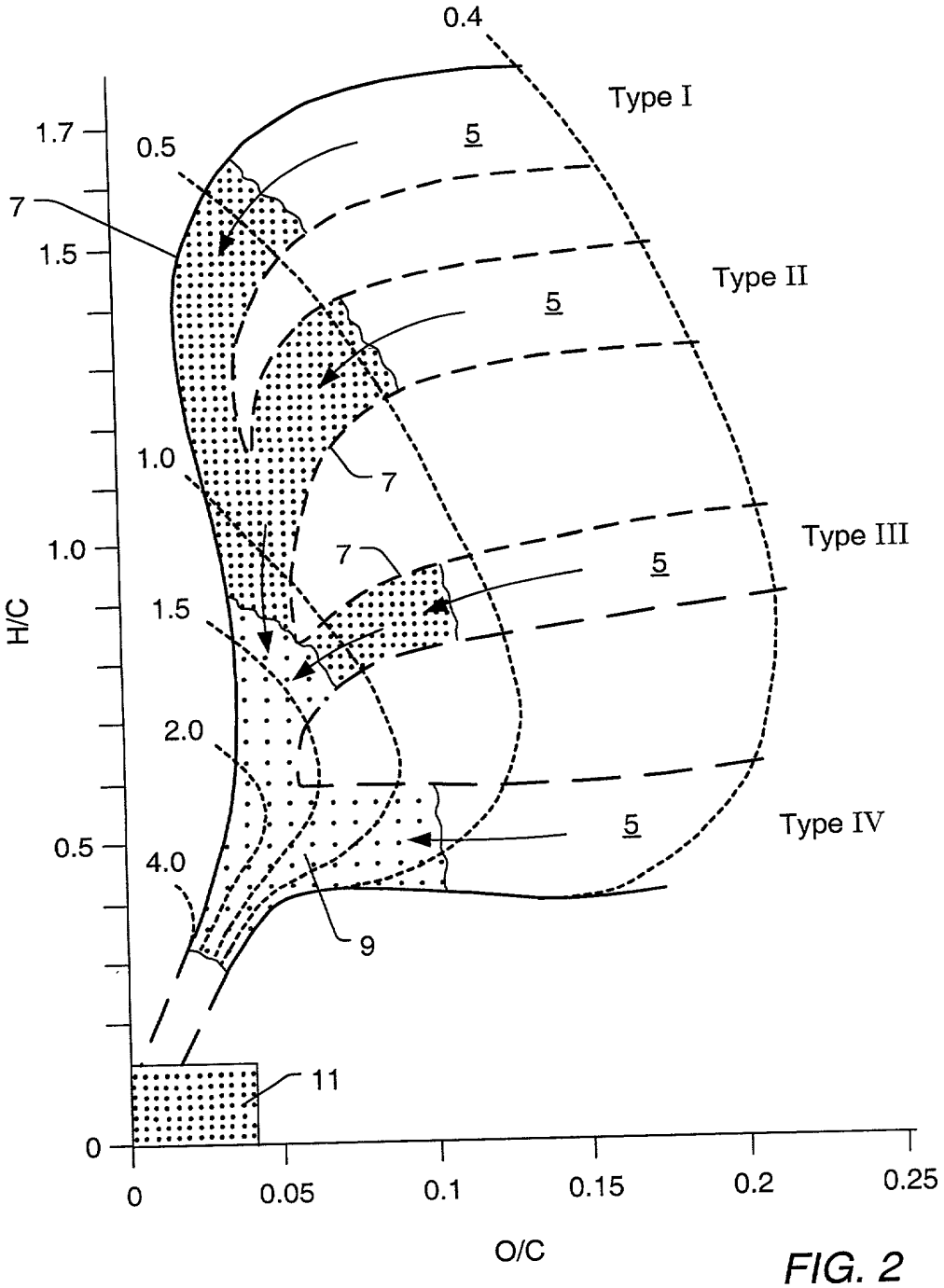


FIG. 1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Type II
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Type III
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H/C
2.0
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Type IV
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0.25
O/C

FIG. 2

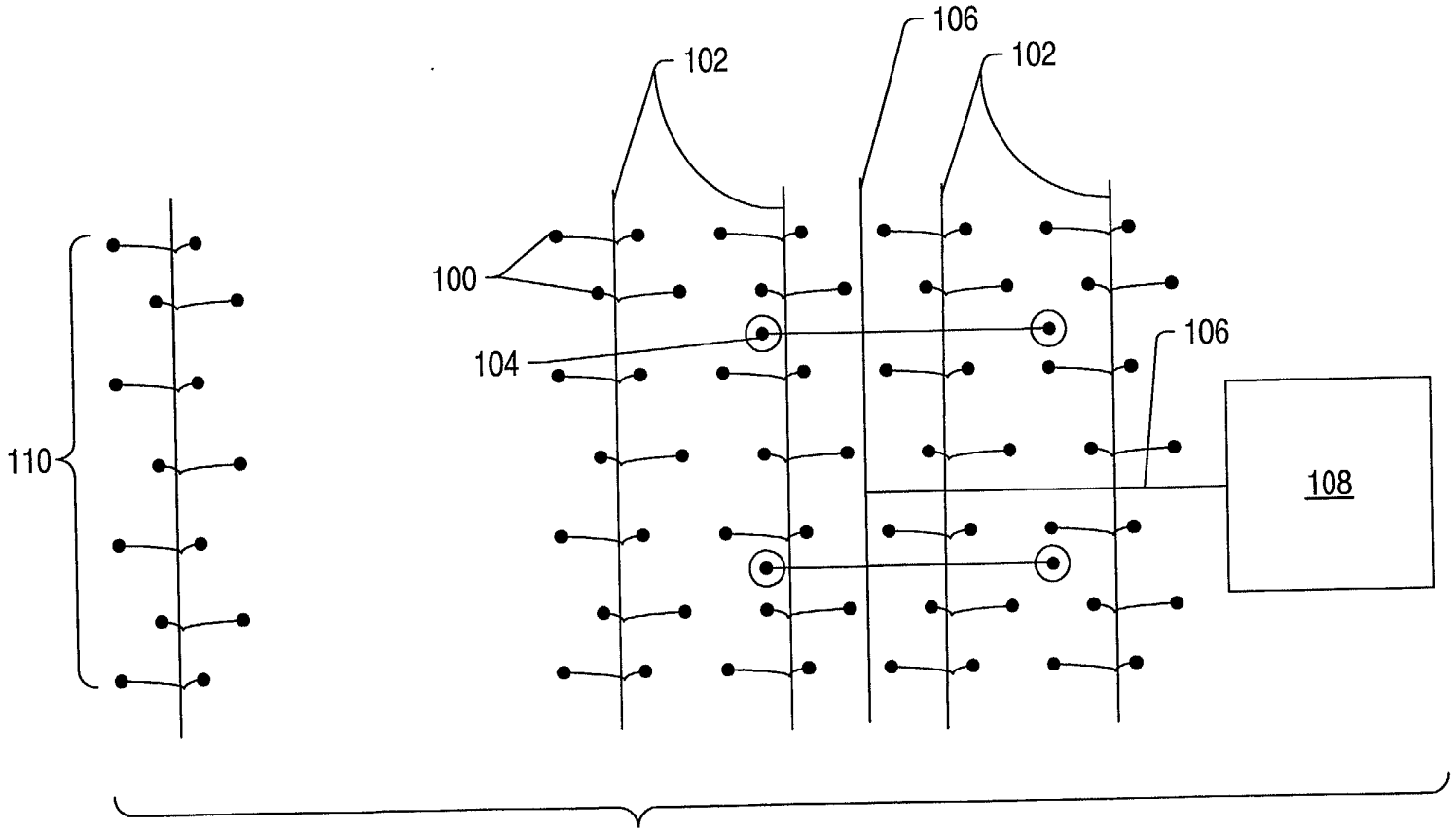

FIG. 3

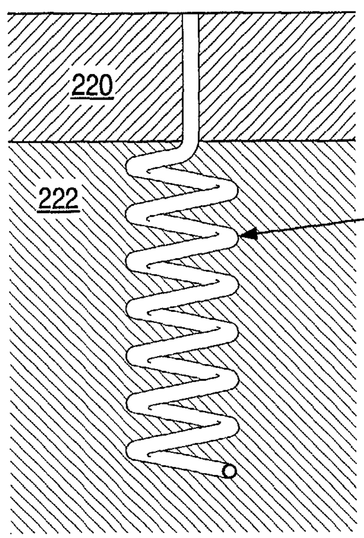

FIG. 3a

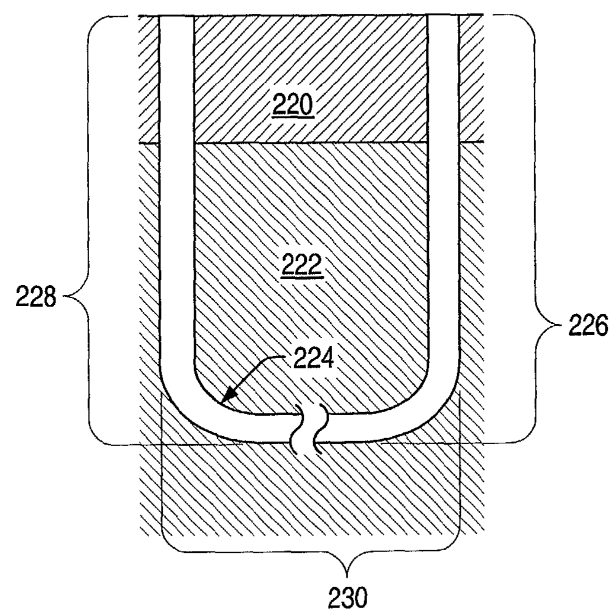

FIG. 3b

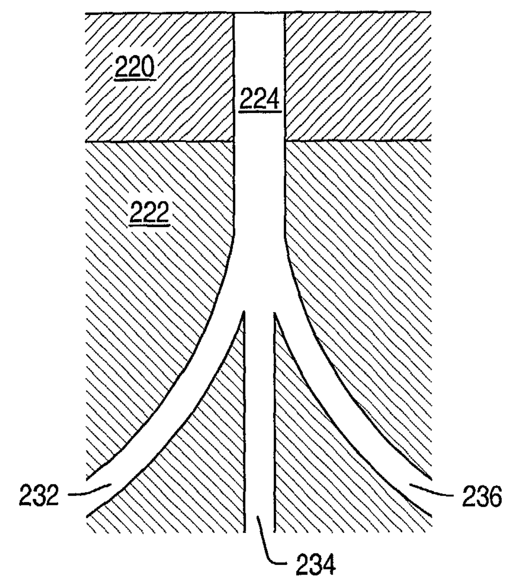

FIG. 3c

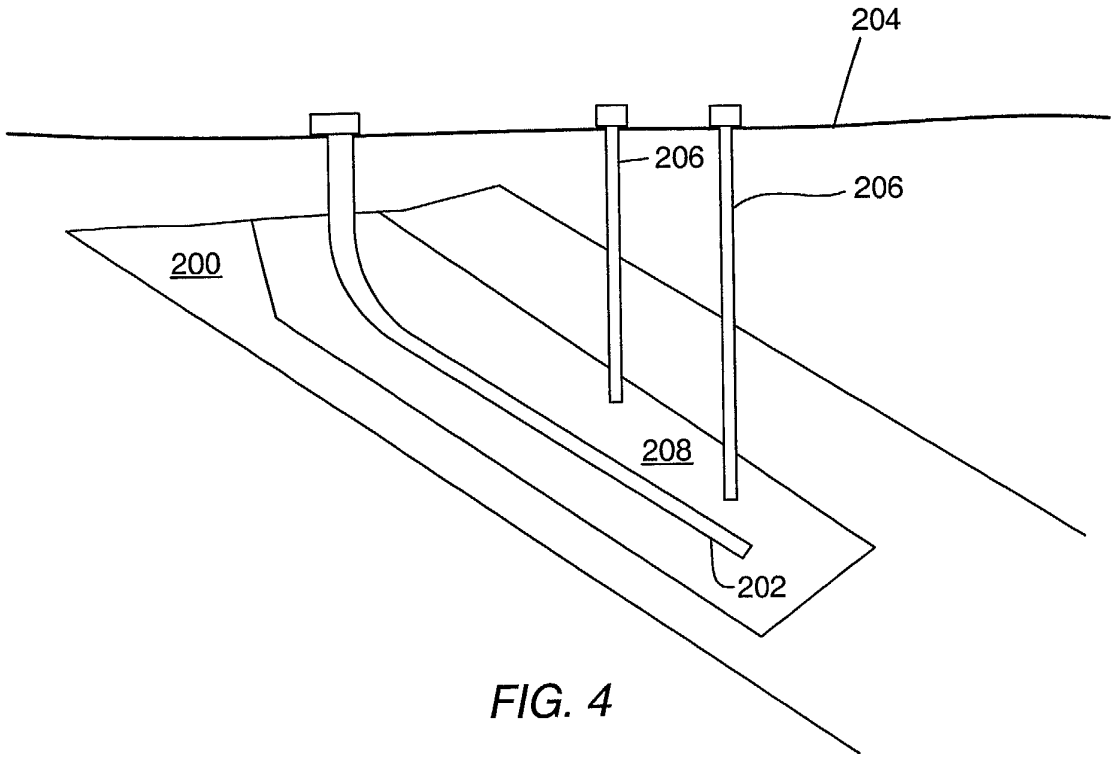

FIG. 4

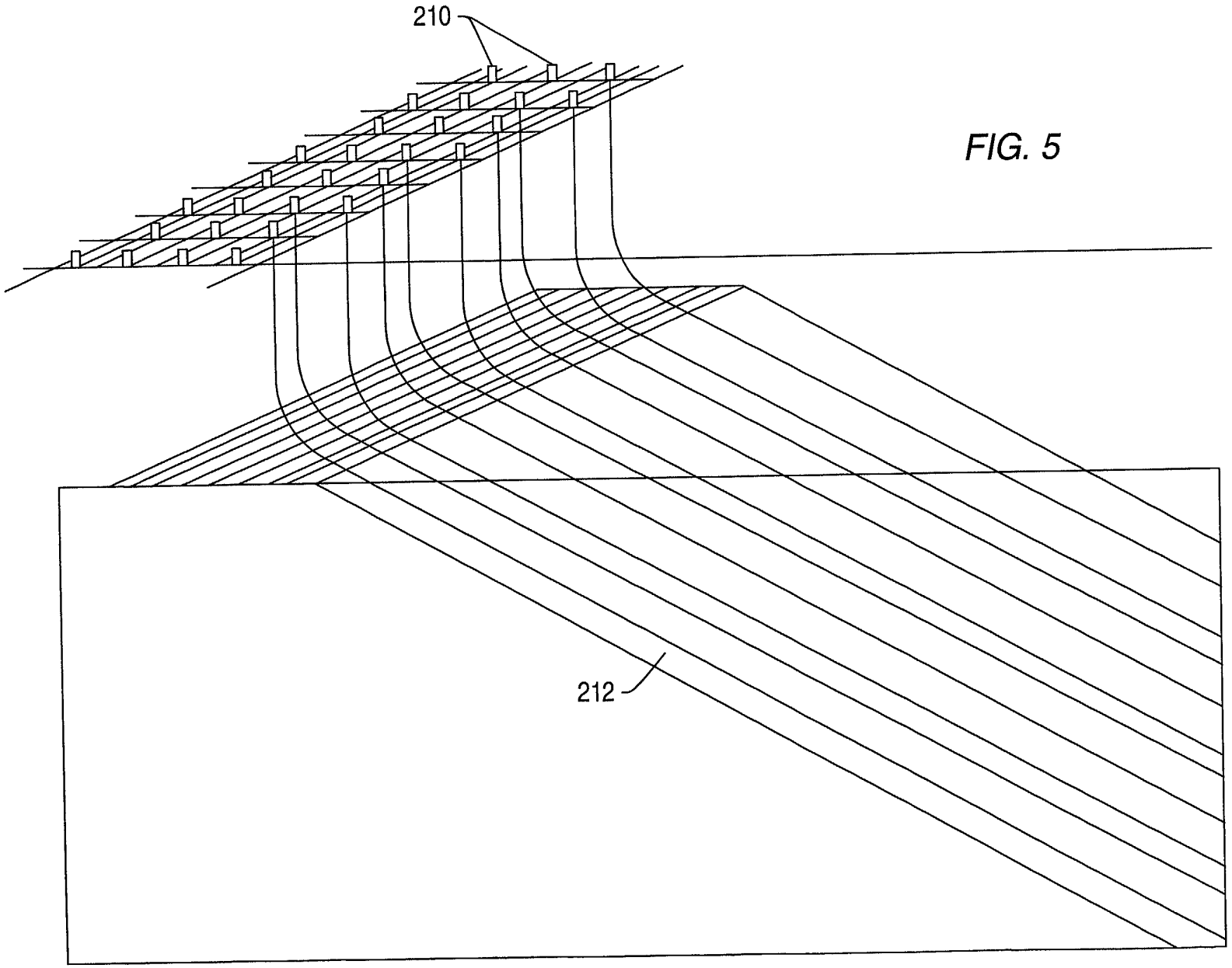

FIG. 5

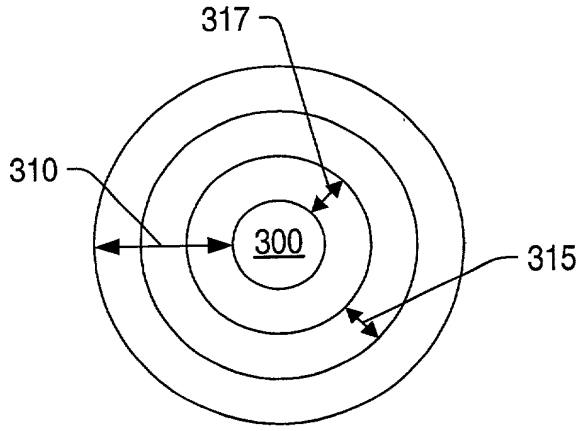

FIG. 6

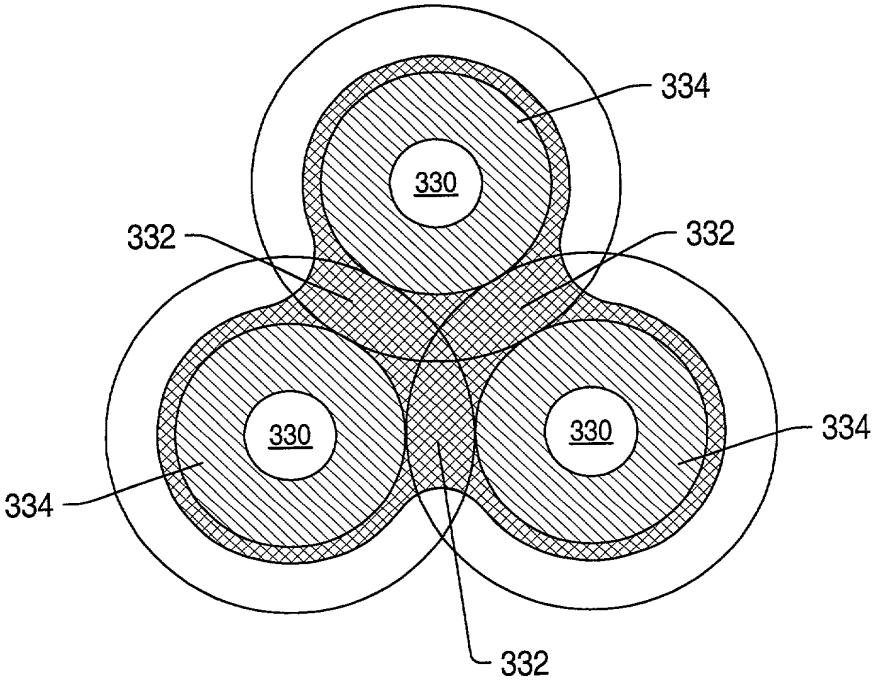

FIG. 7

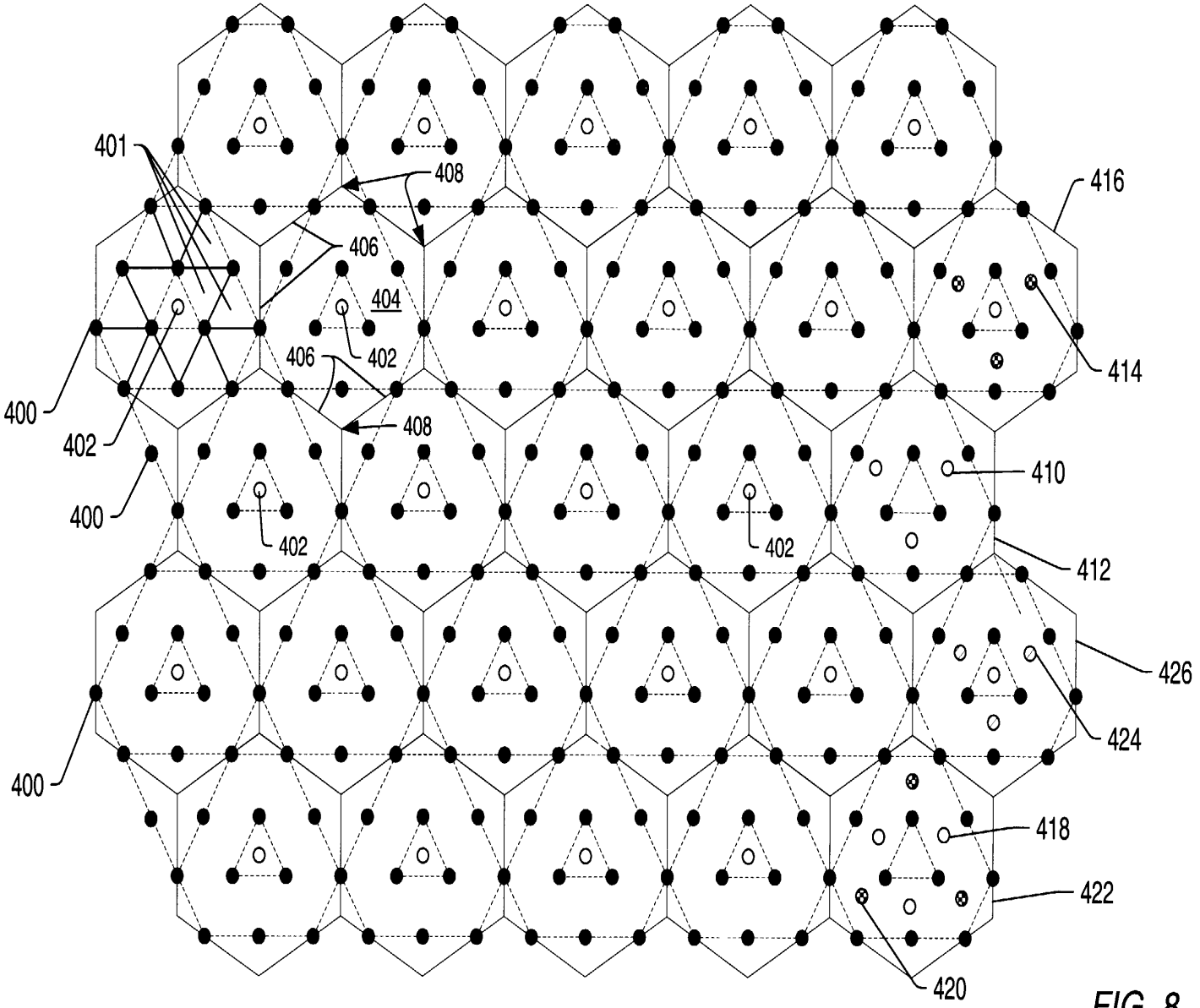
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FIG. 8

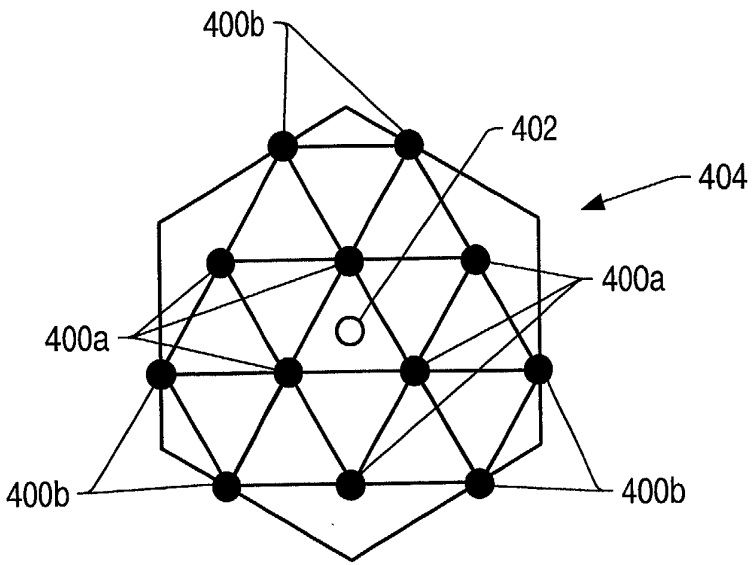

FIG. 9

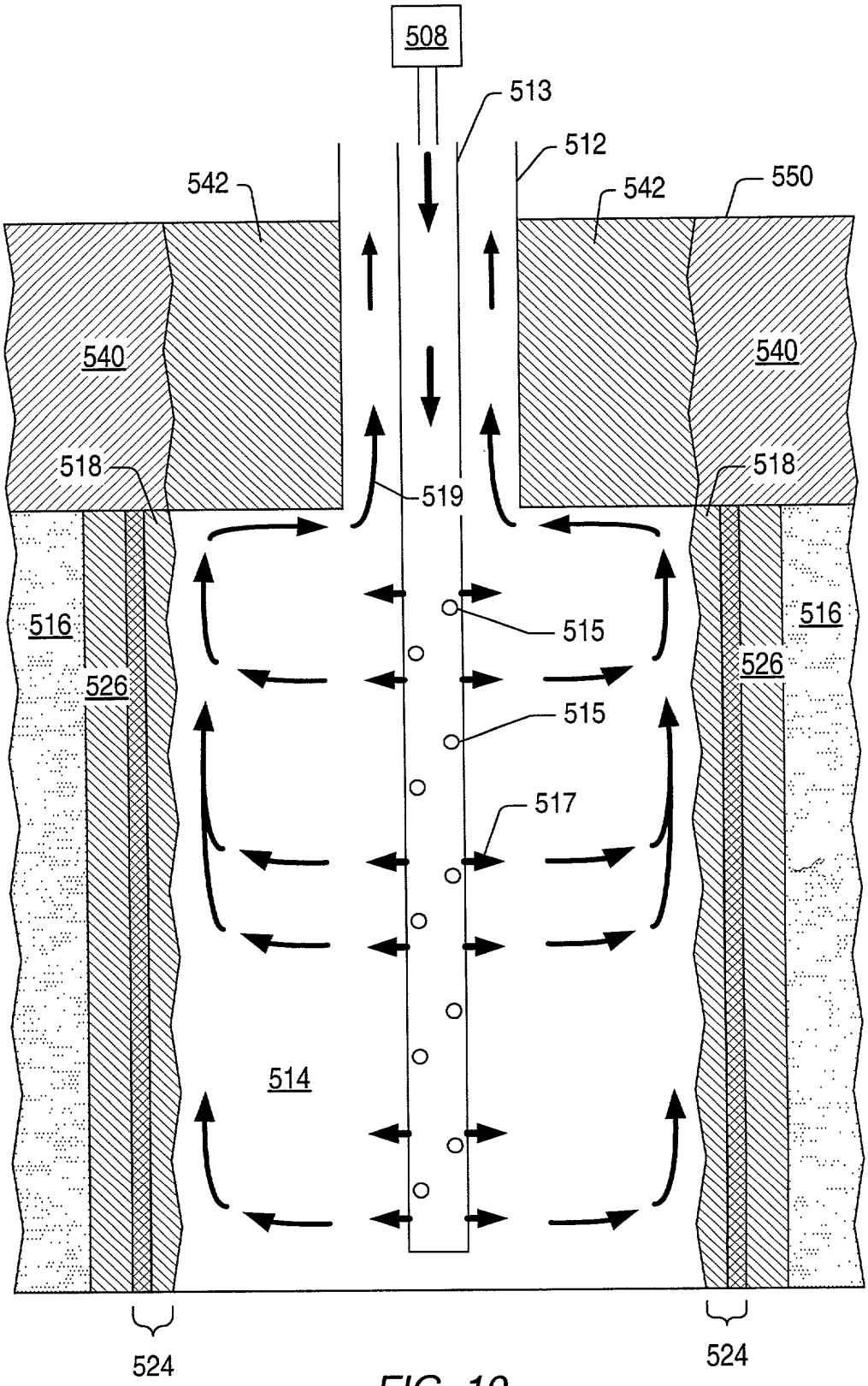
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FIG. 10

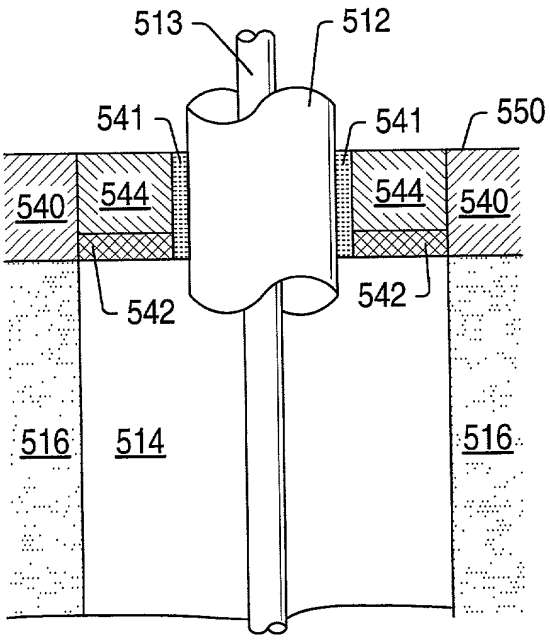
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FIG. 11

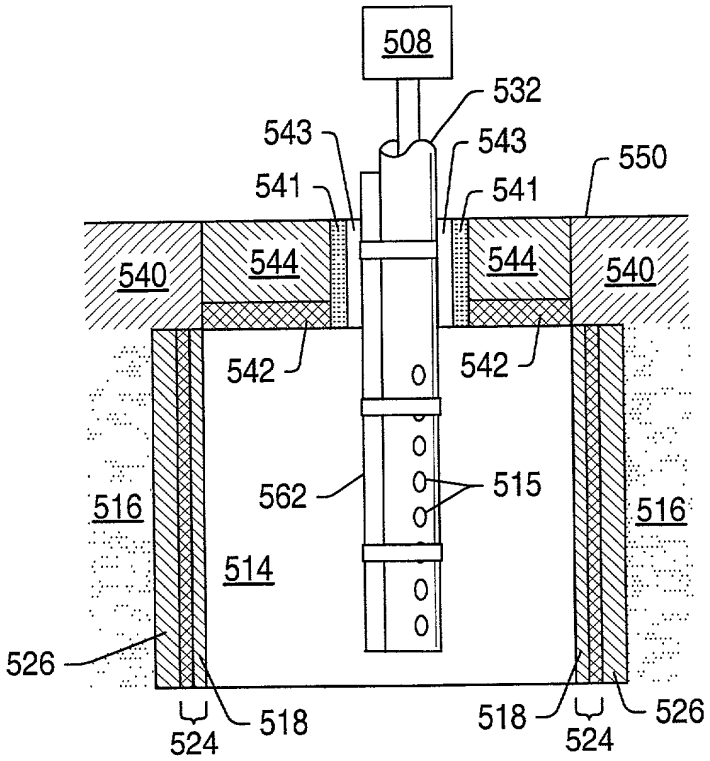
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FIG. 12

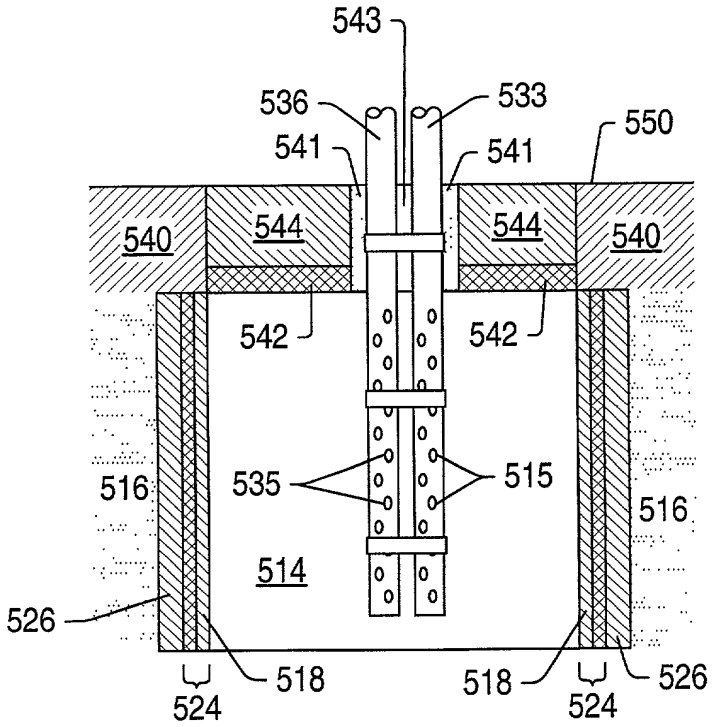
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Fig. 13

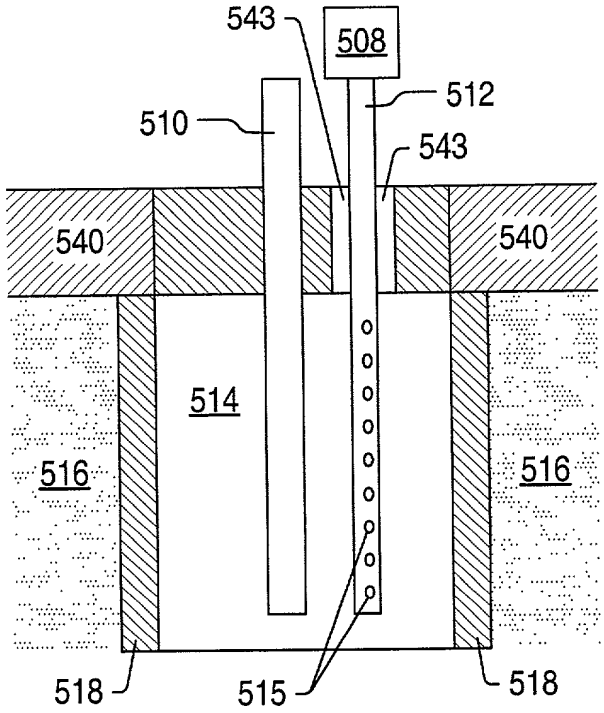
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FIG. 14

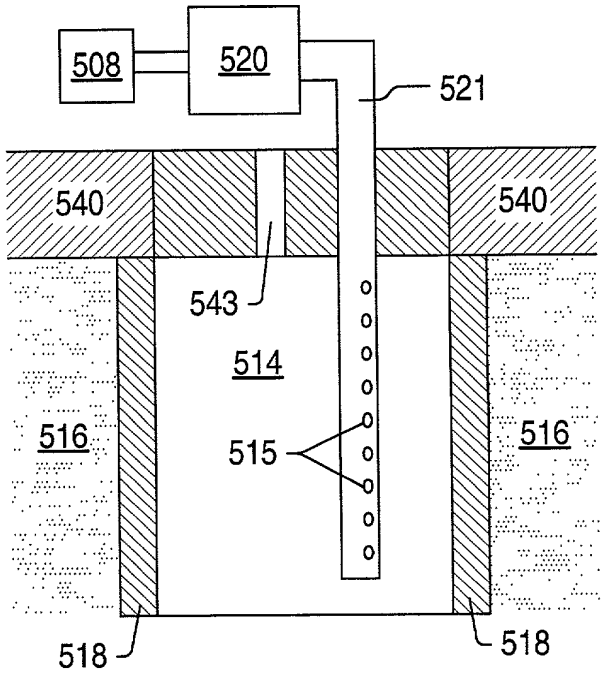
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FIG. 15

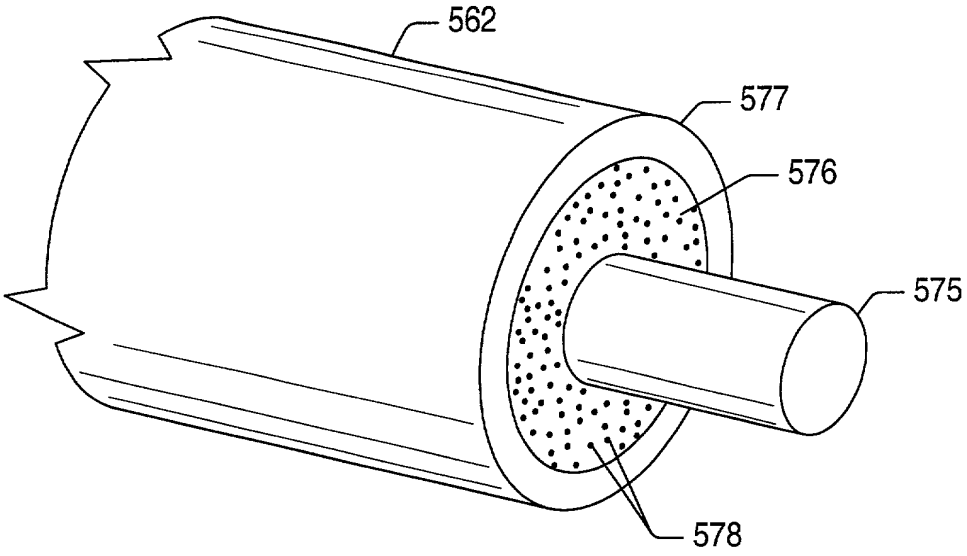


FIG. 16

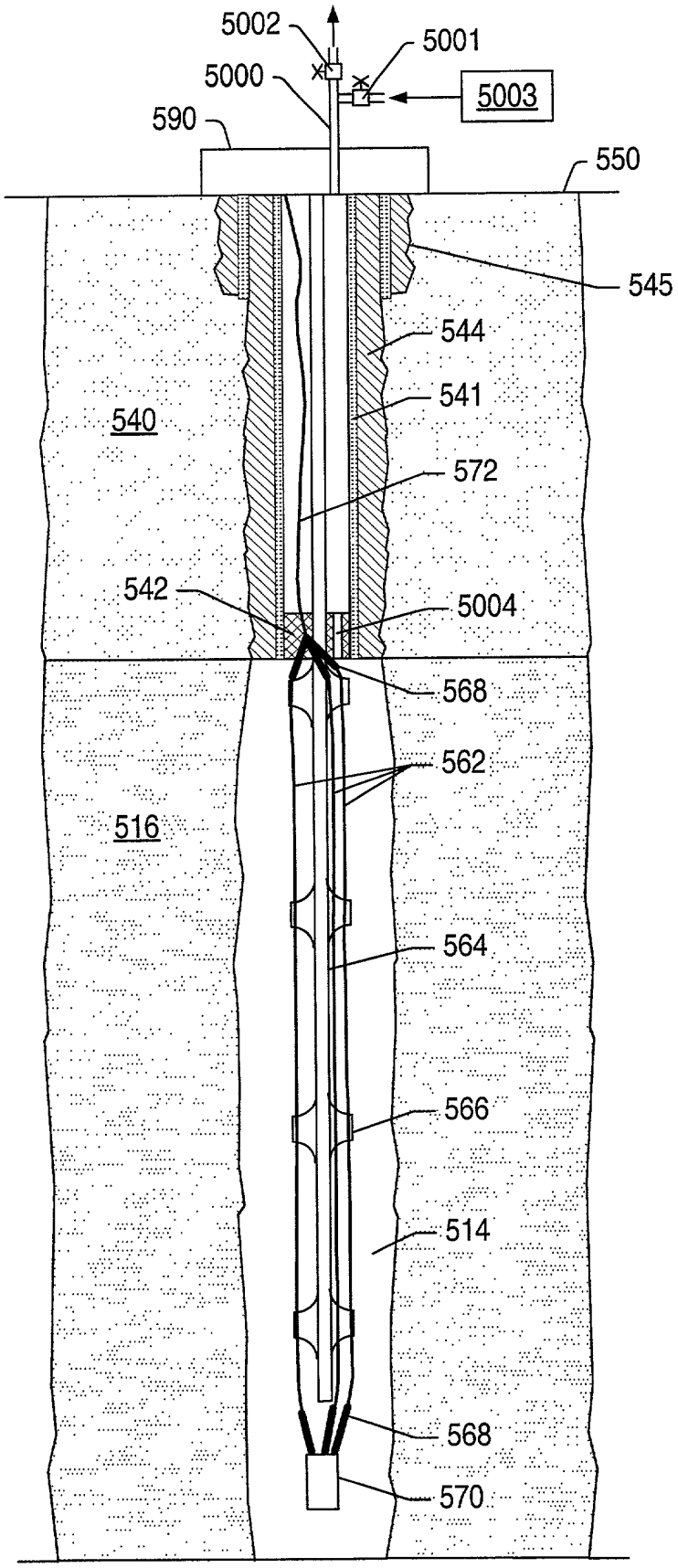


FIG. 17

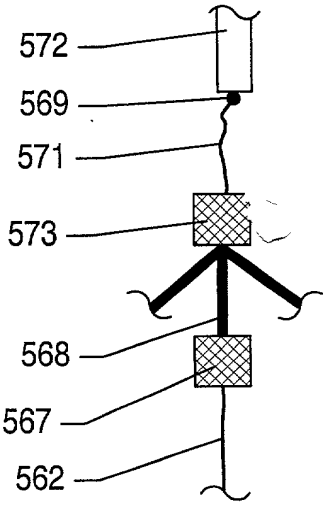
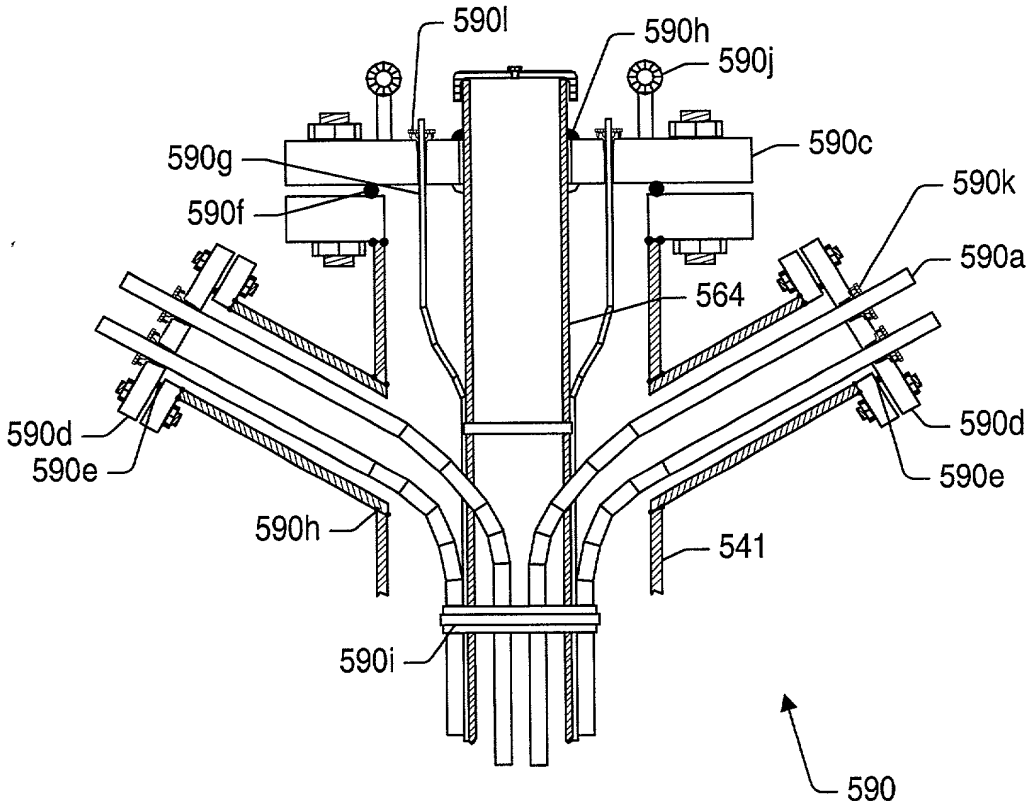


FIG. 17A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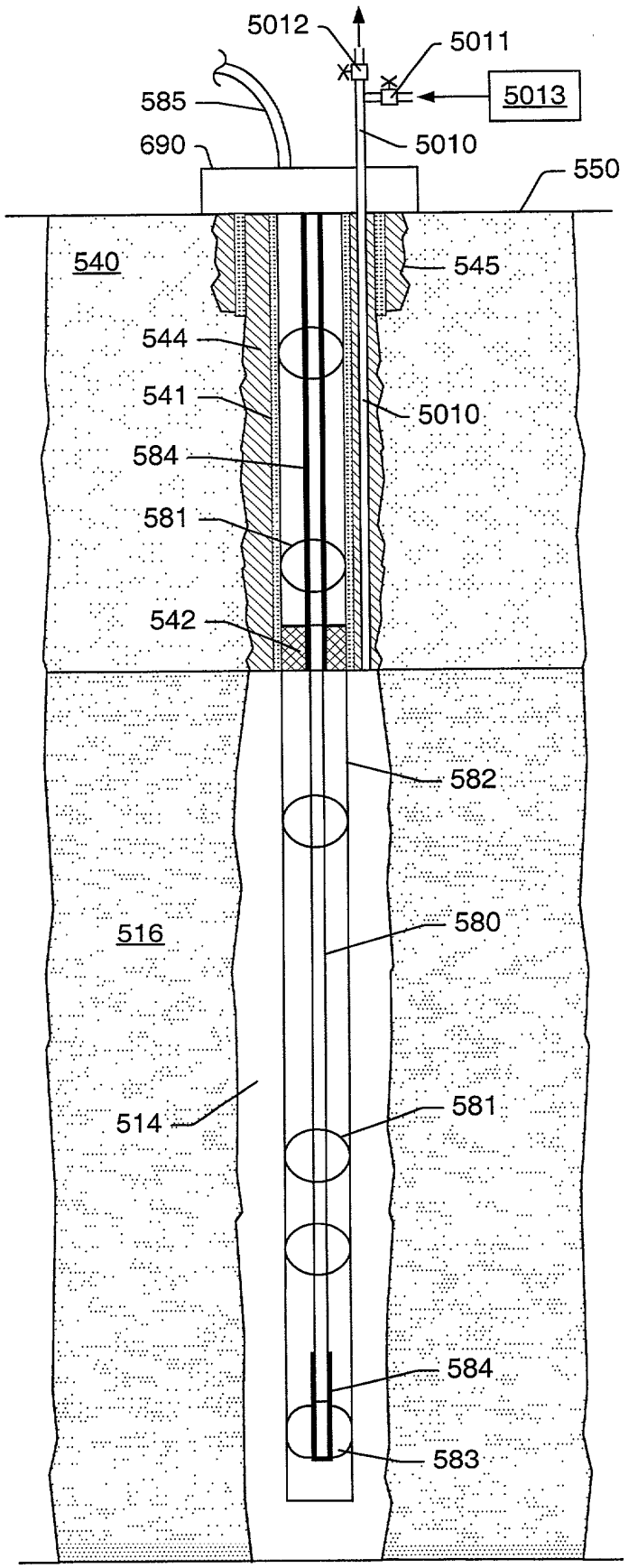
590a
564
590d
590e
590h
541
590d
590e
590i
590

FIG. 18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581
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583

FIG. 19

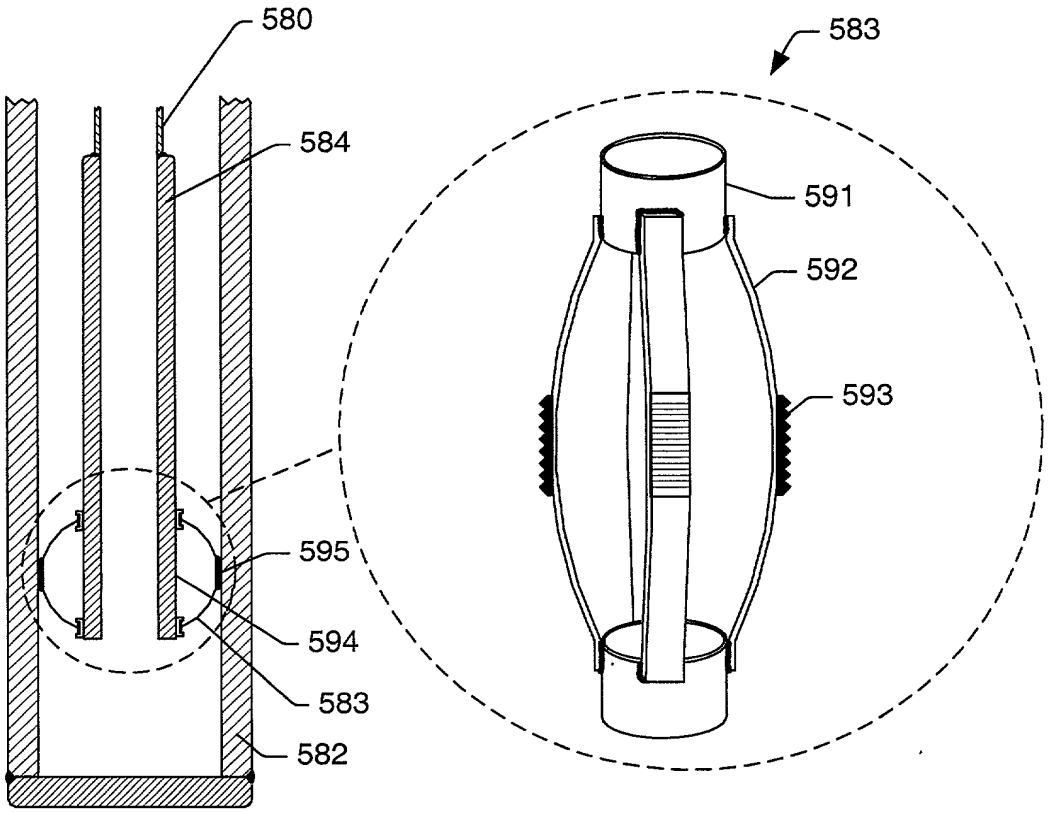
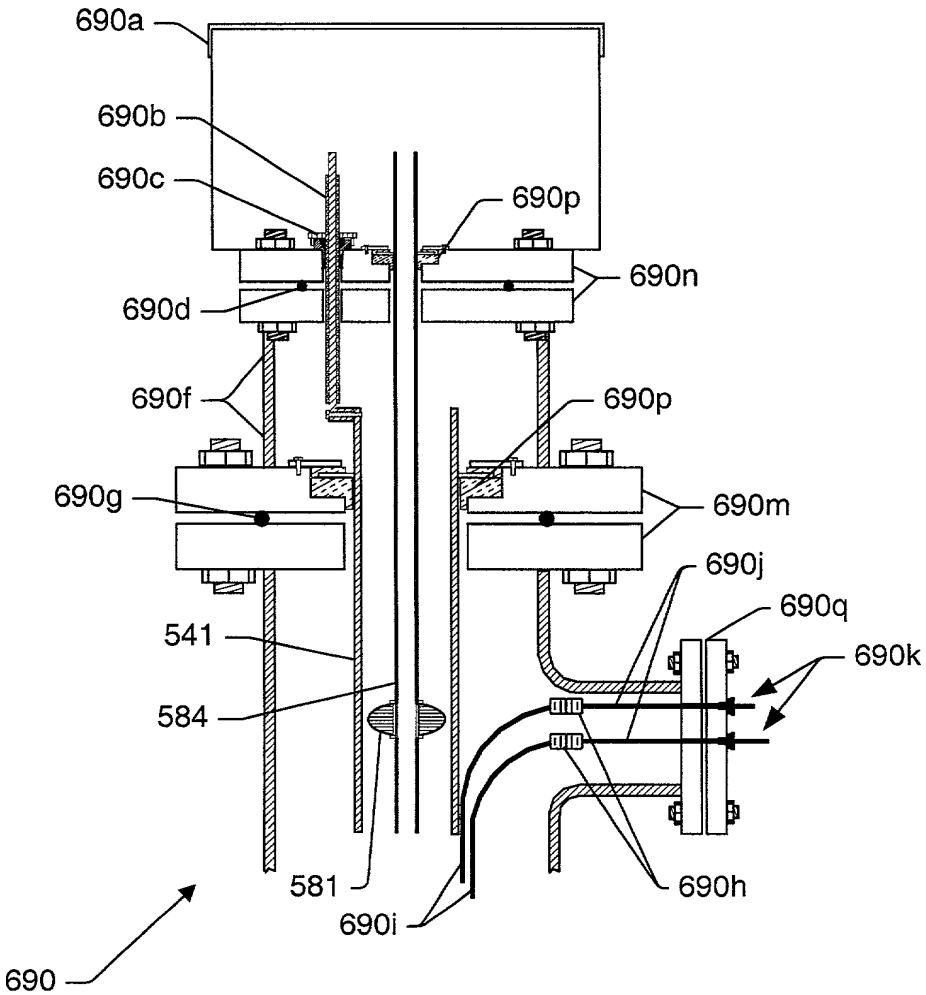


FIG. 20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690m
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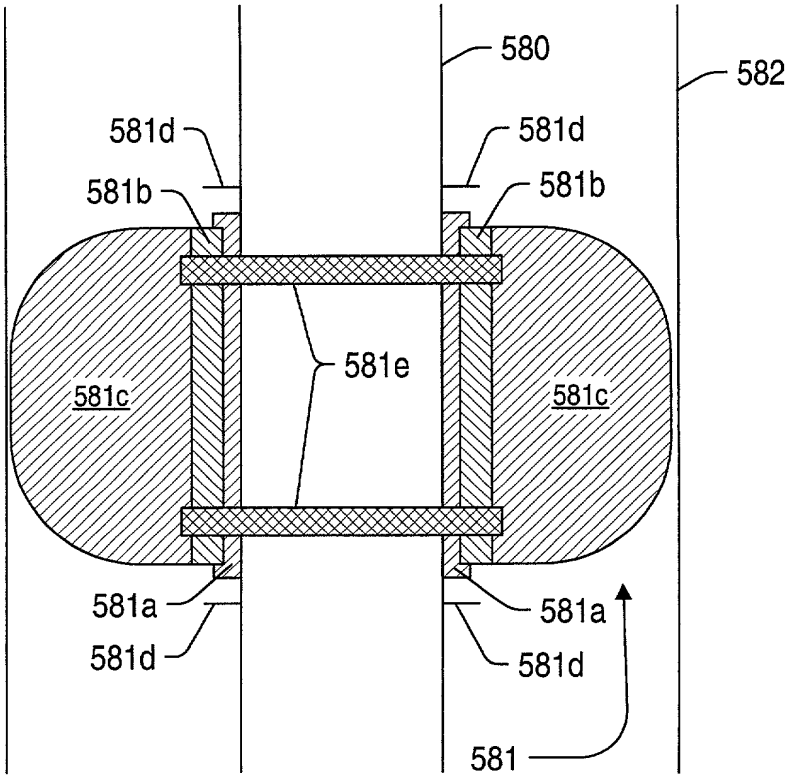
690q
690k
541
584
581
690h
690i
690

FIG. 21


580
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581c
581a
581a
581d
581d
581

FIG. 22

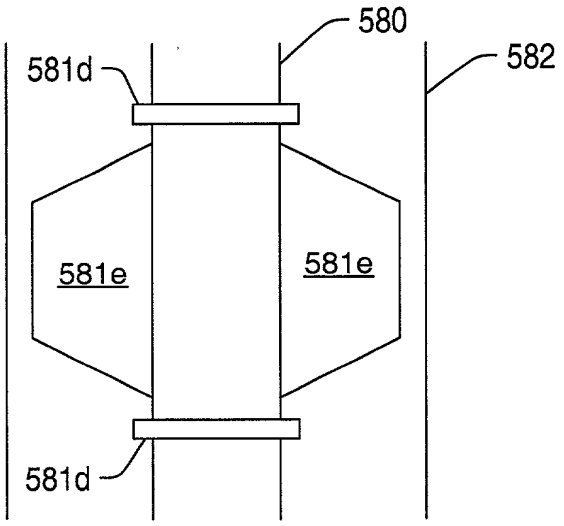


FIG. 23a

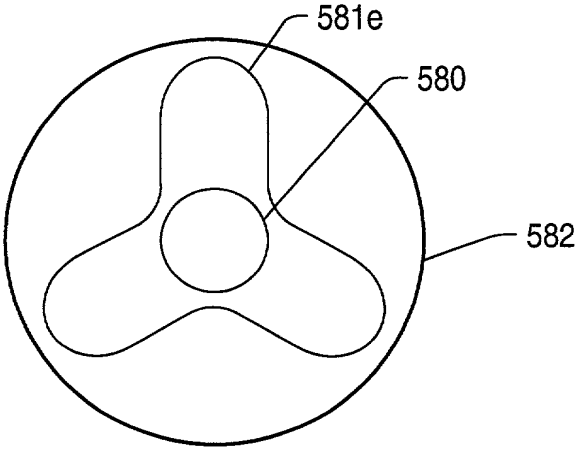


FIG. 23b

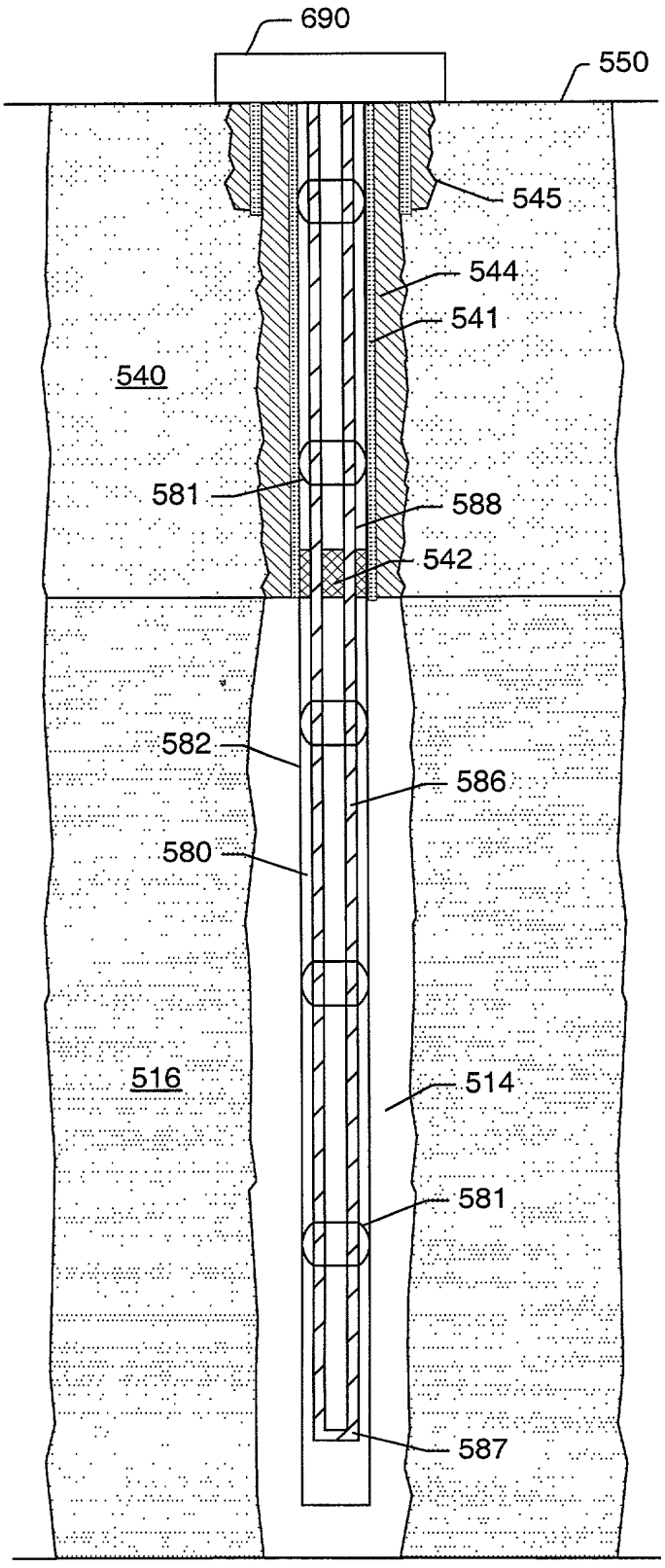
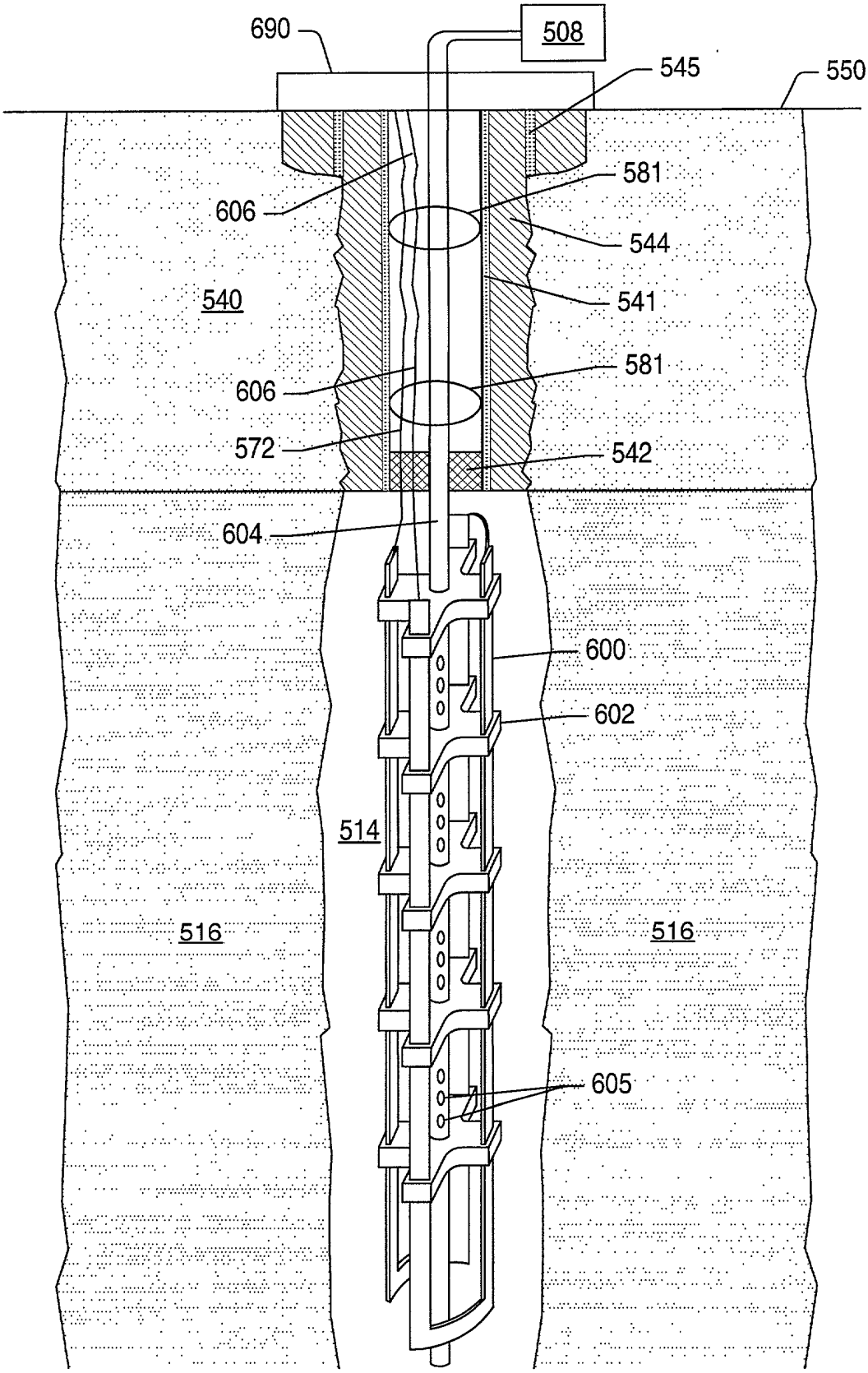


Fig. 24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508
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572
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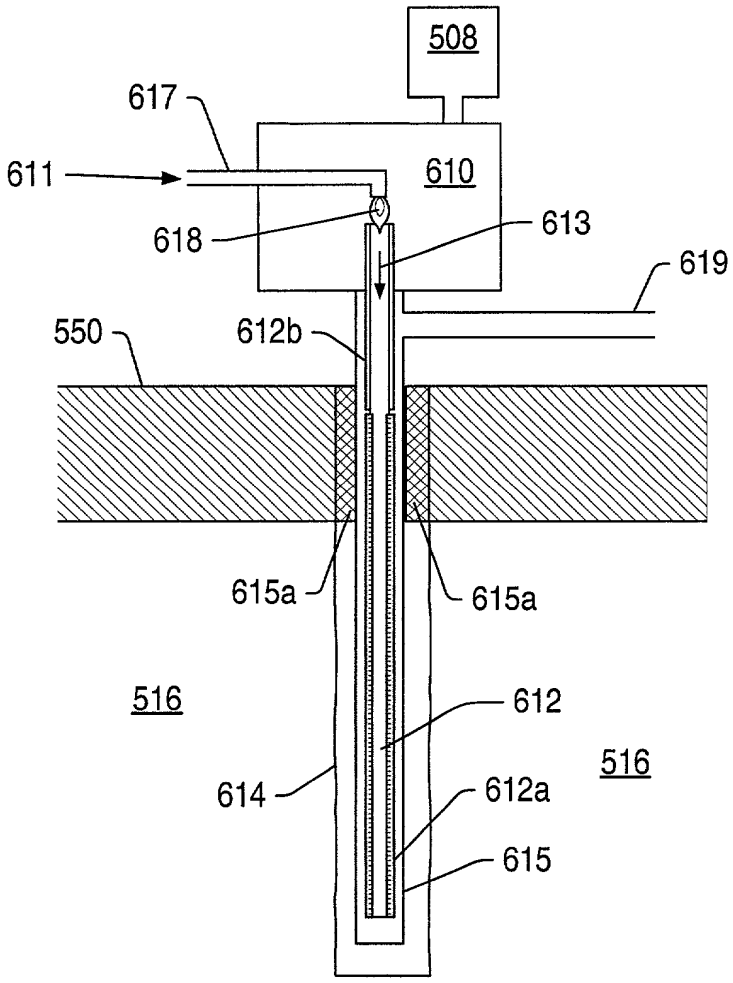
FIG. 25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619
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612b
615a
615a
516
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612a
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FIG. 26

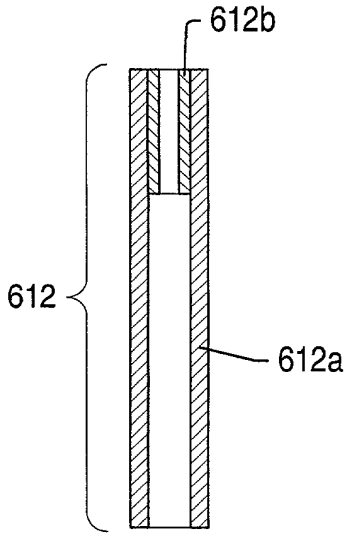
612b
612
612a

FIG. 27

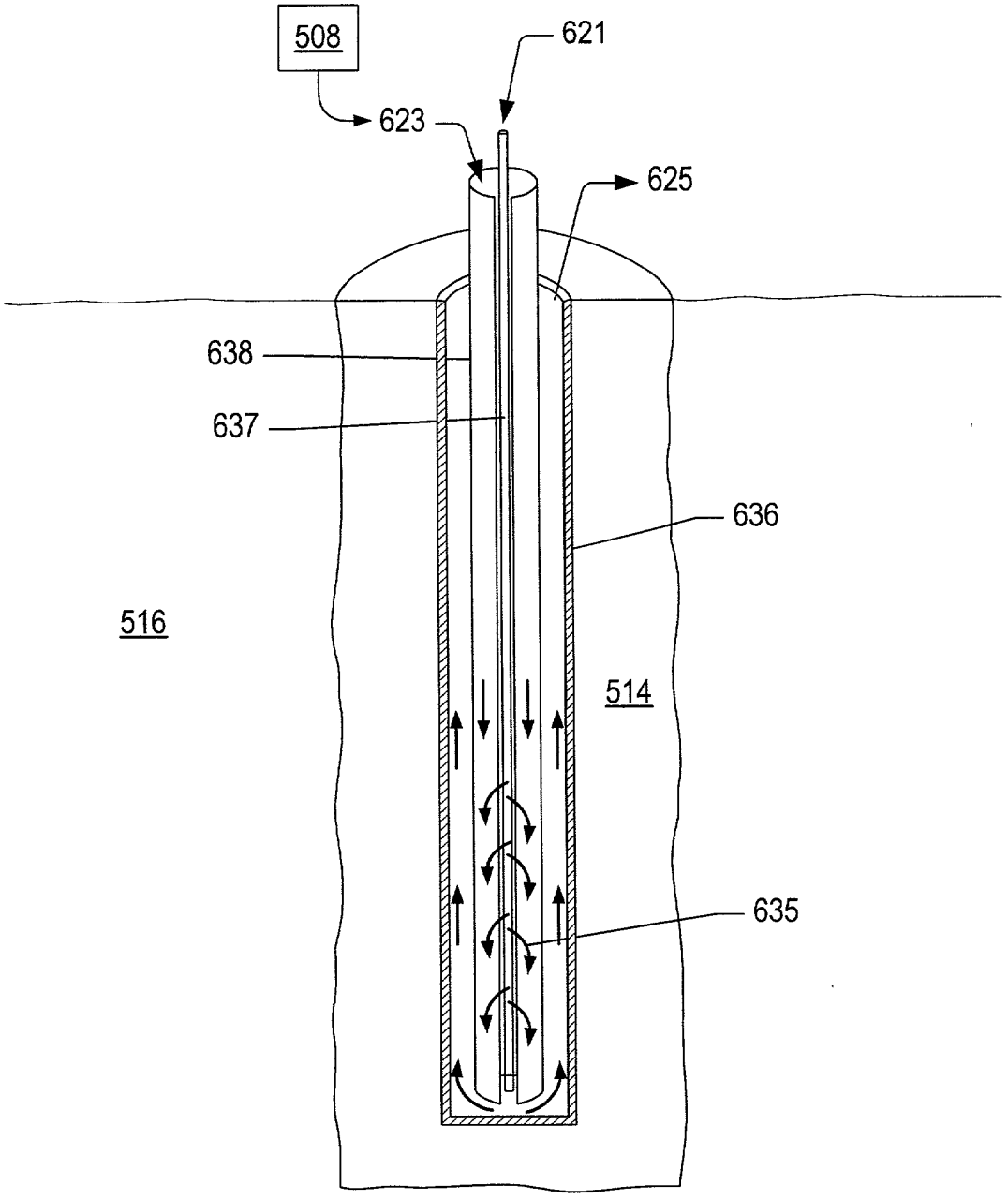

FIG. 28

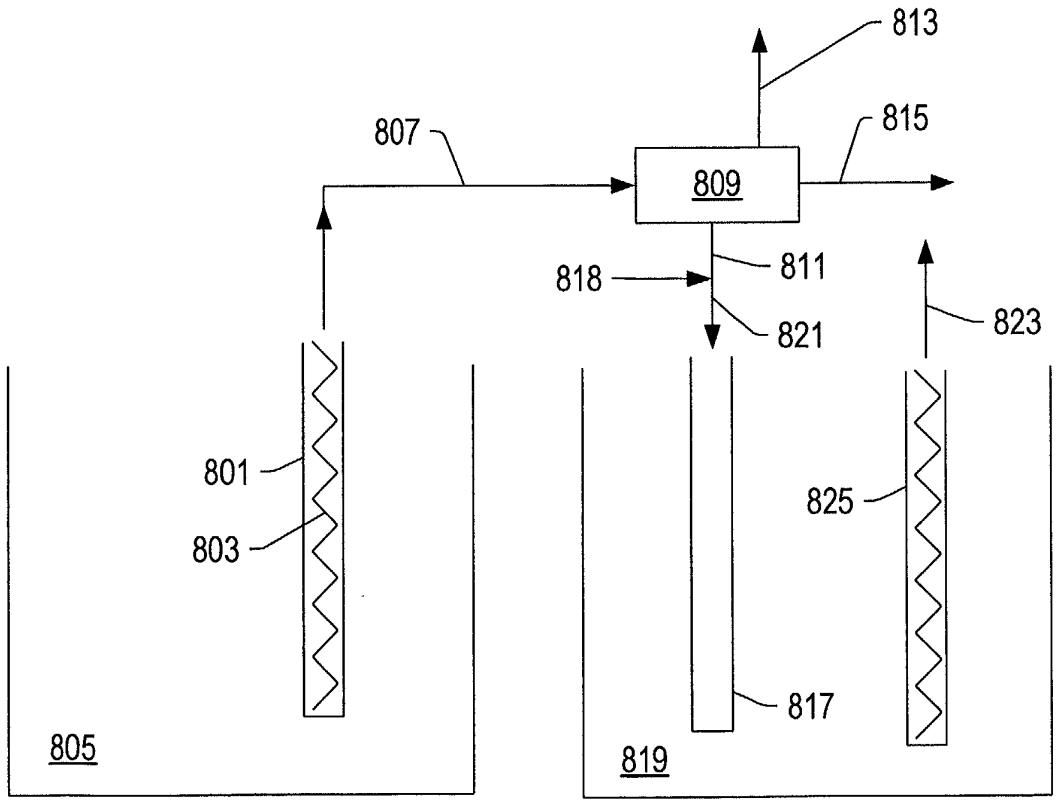

FIG. 29

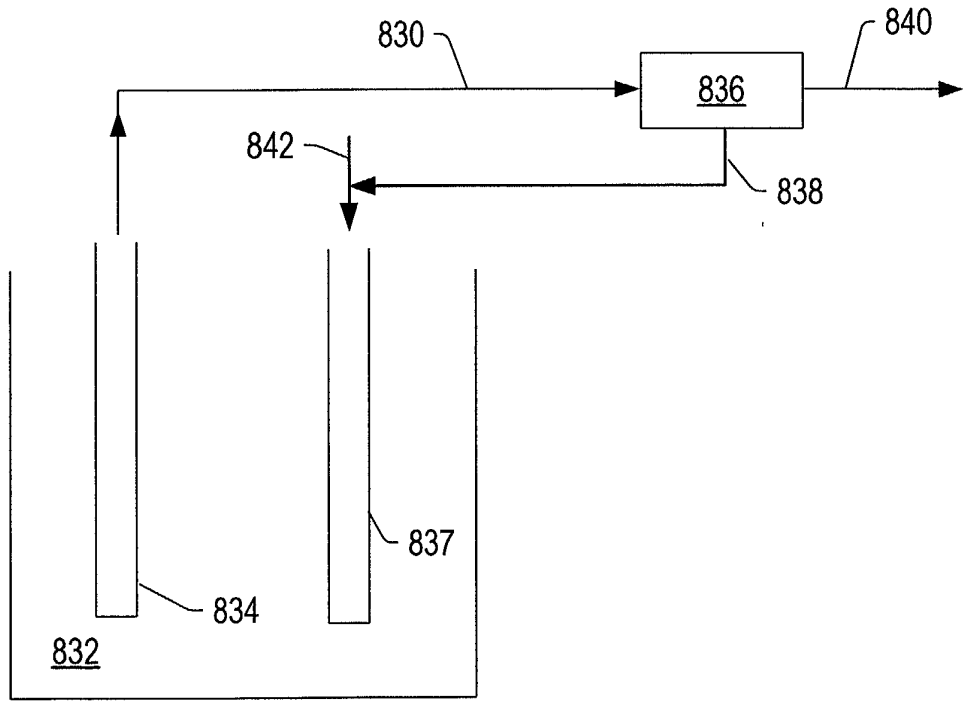

FIG. 30

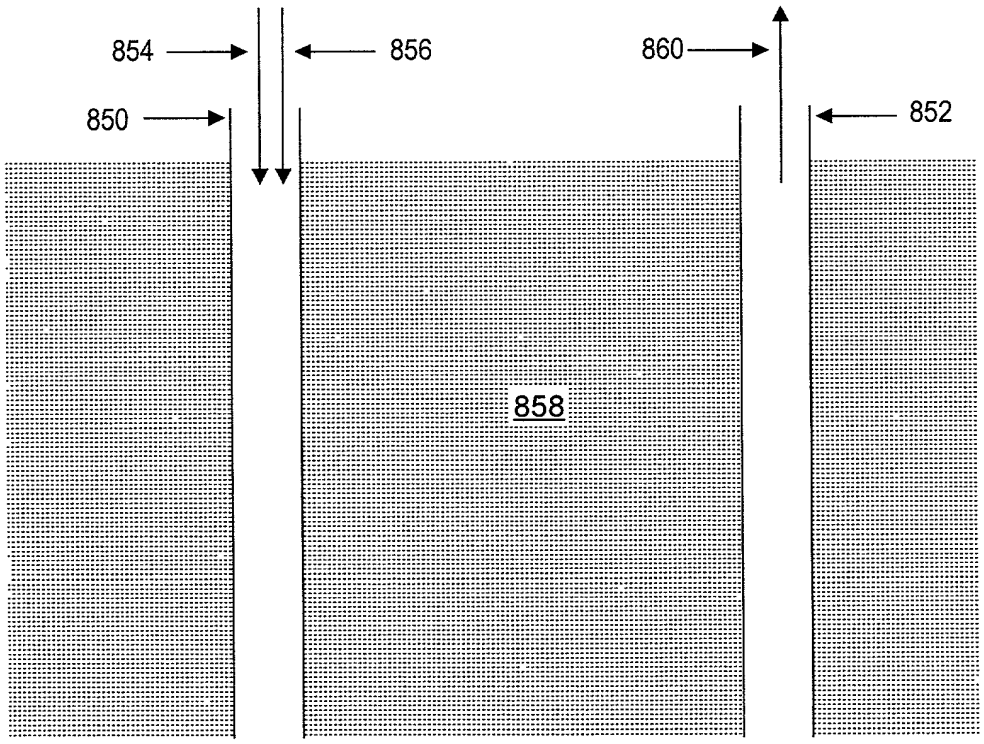

FIG. 31

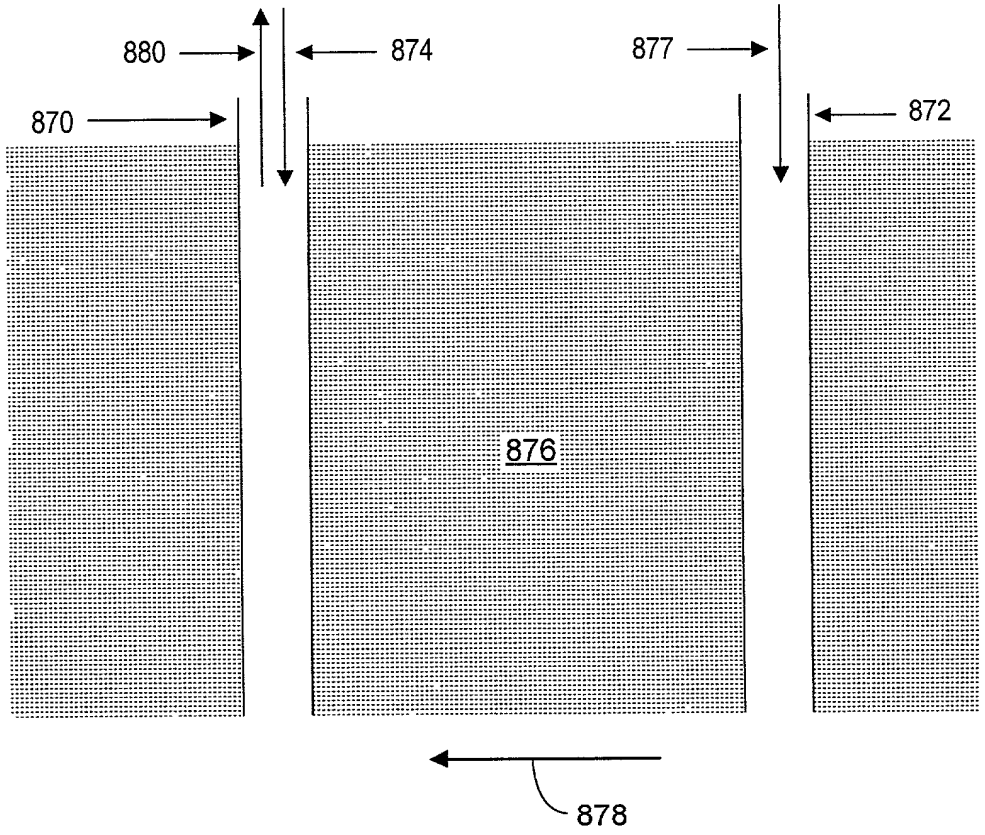

FIG. 32

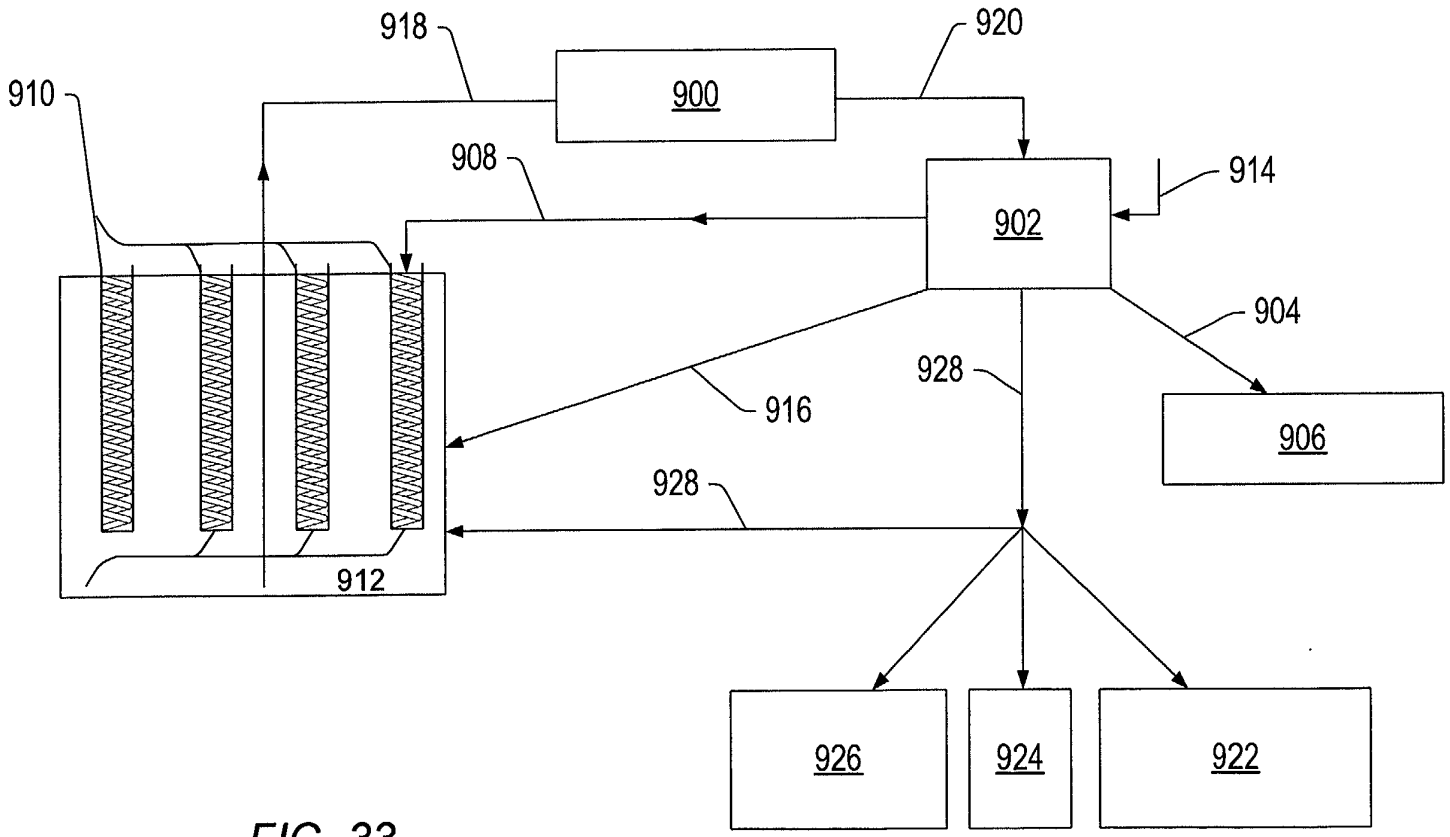

FIG. 33

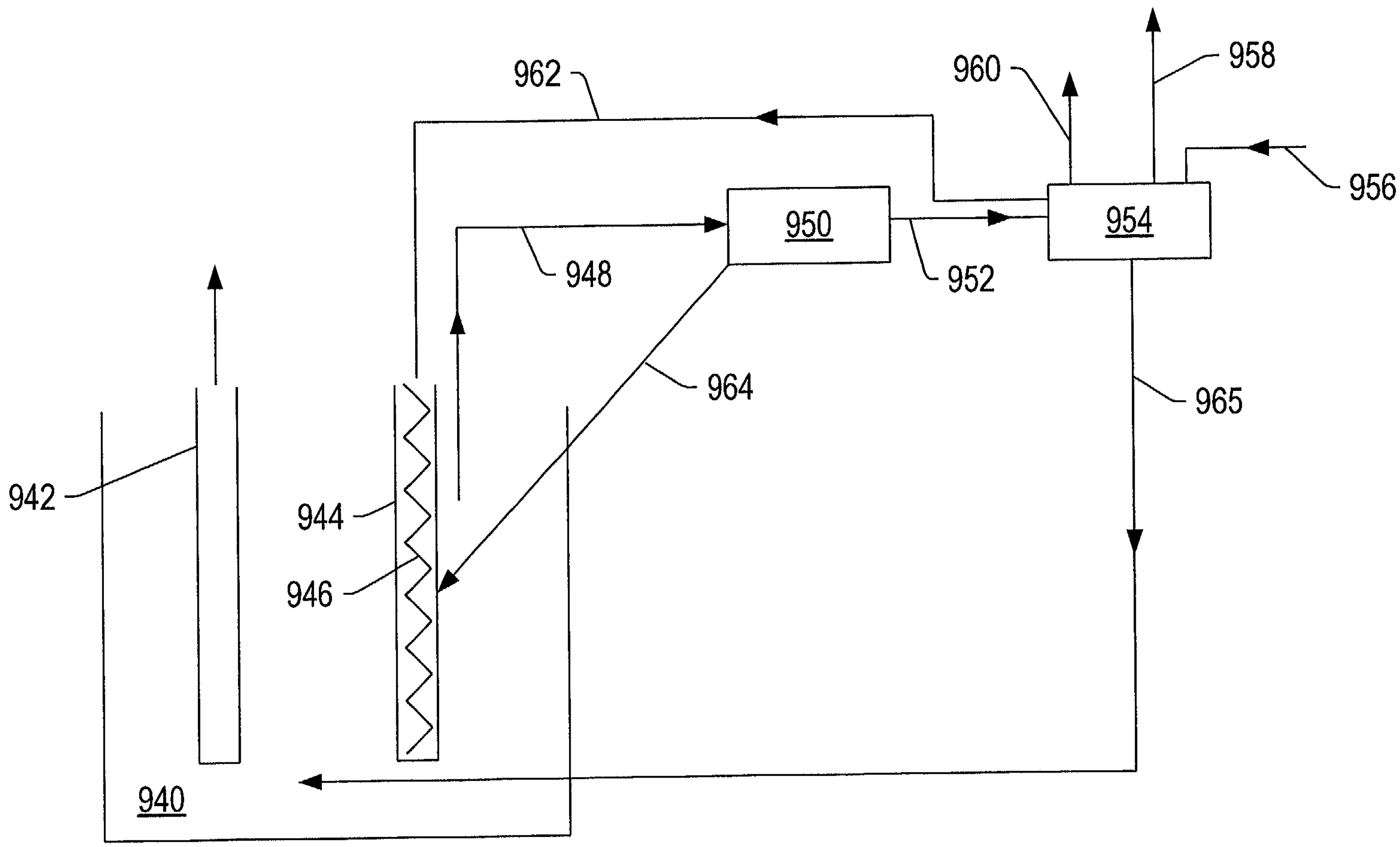

FIG. 34

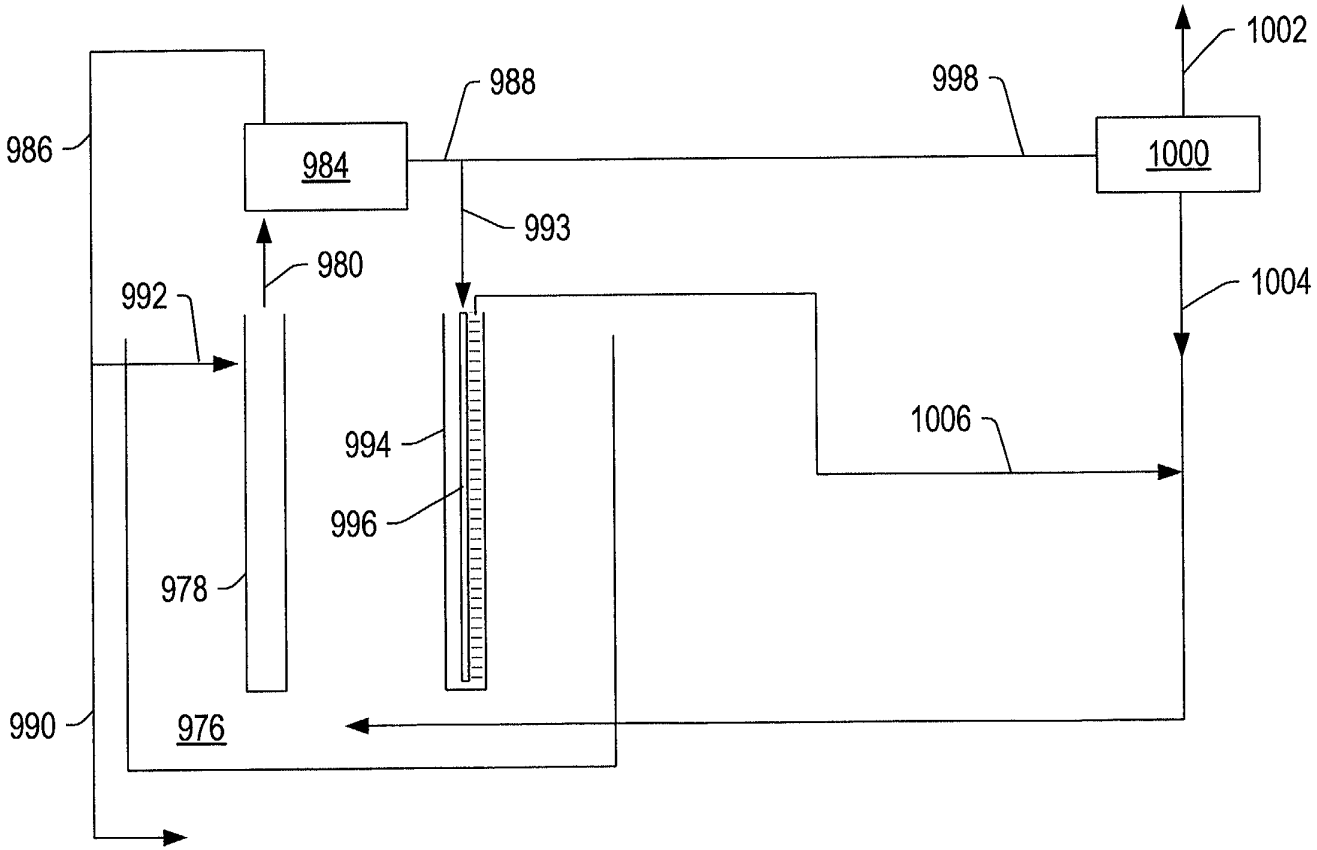
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FIG. 35

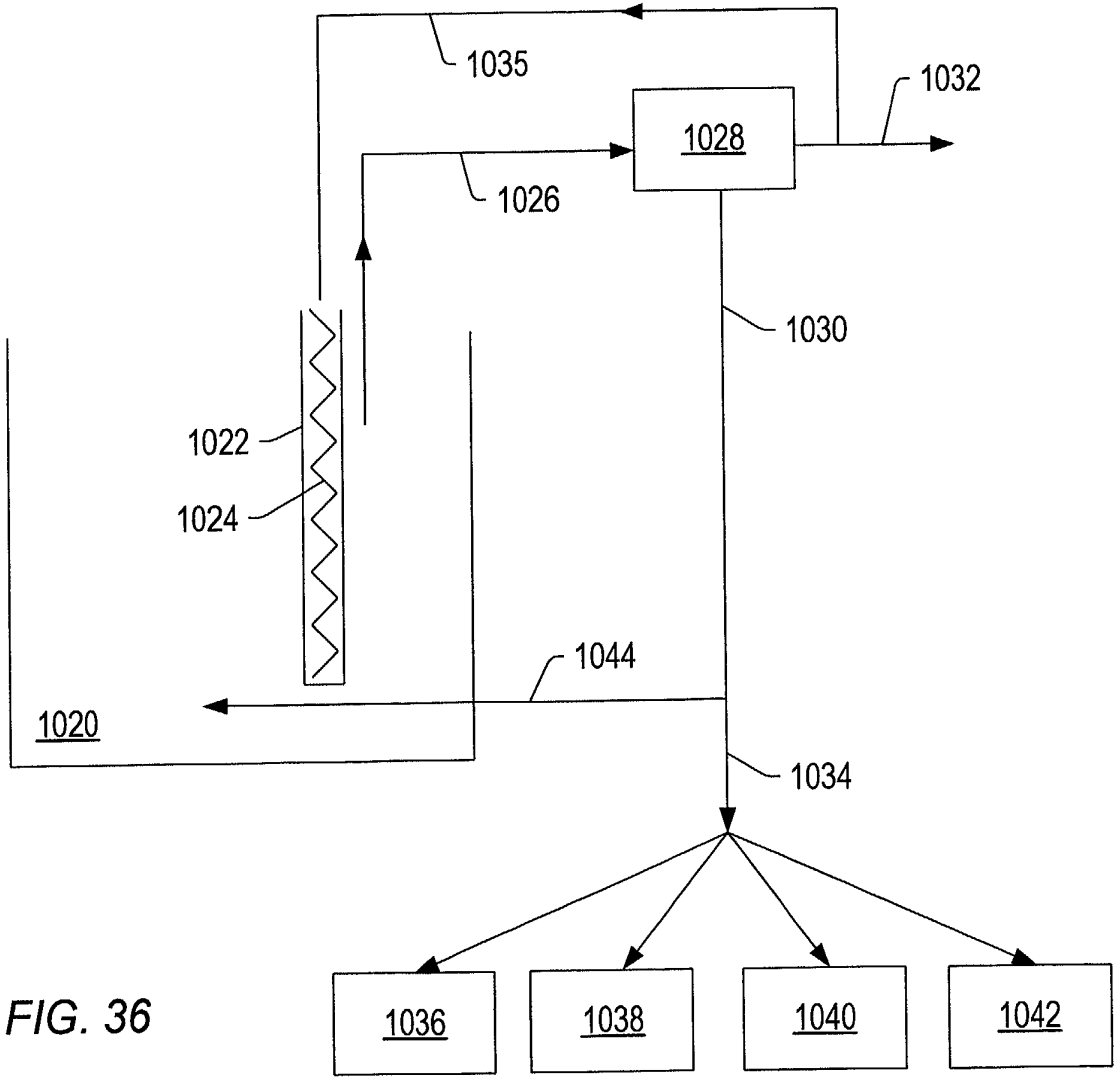
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FIG. 36

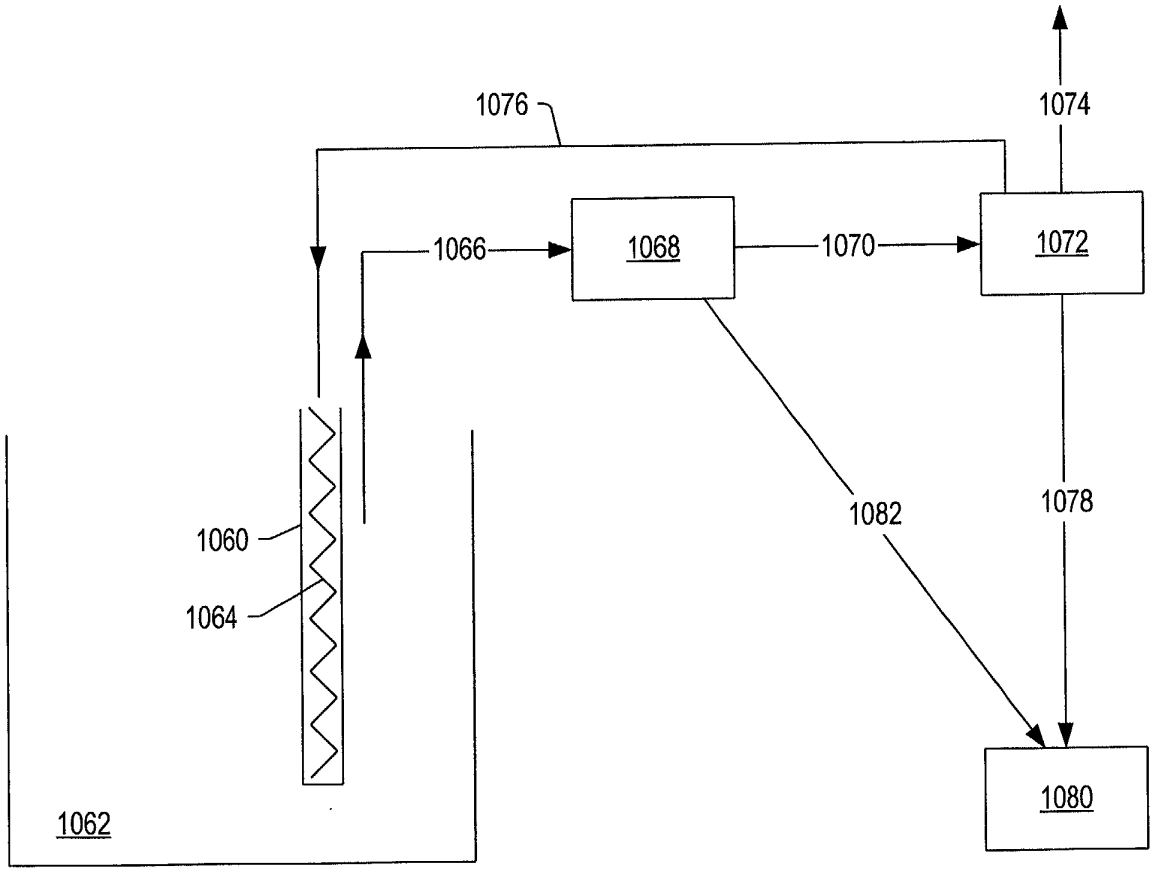


FIG. 37

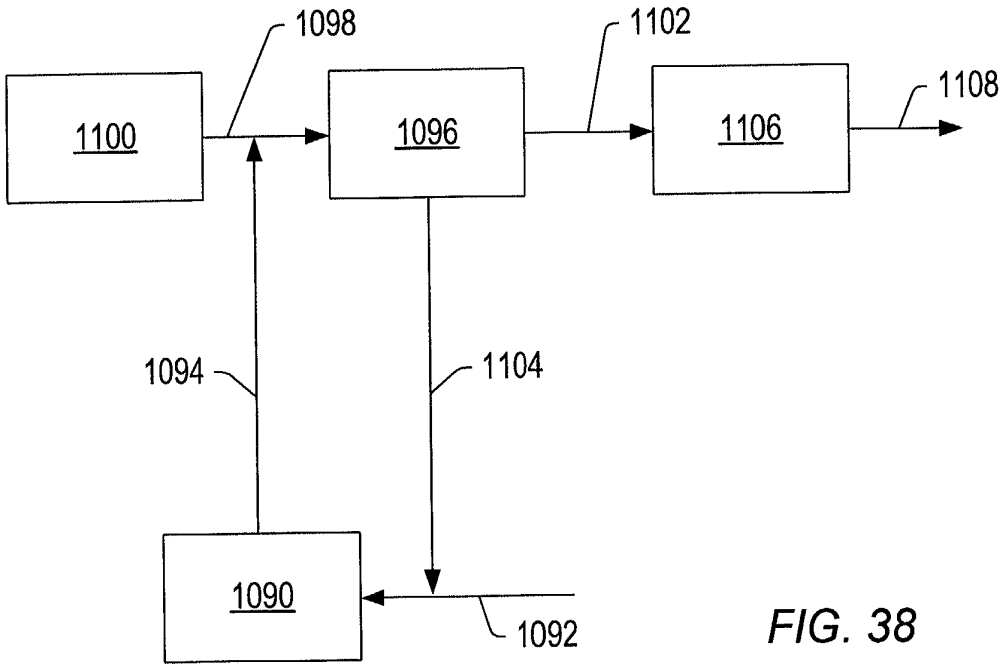


FIG. 38

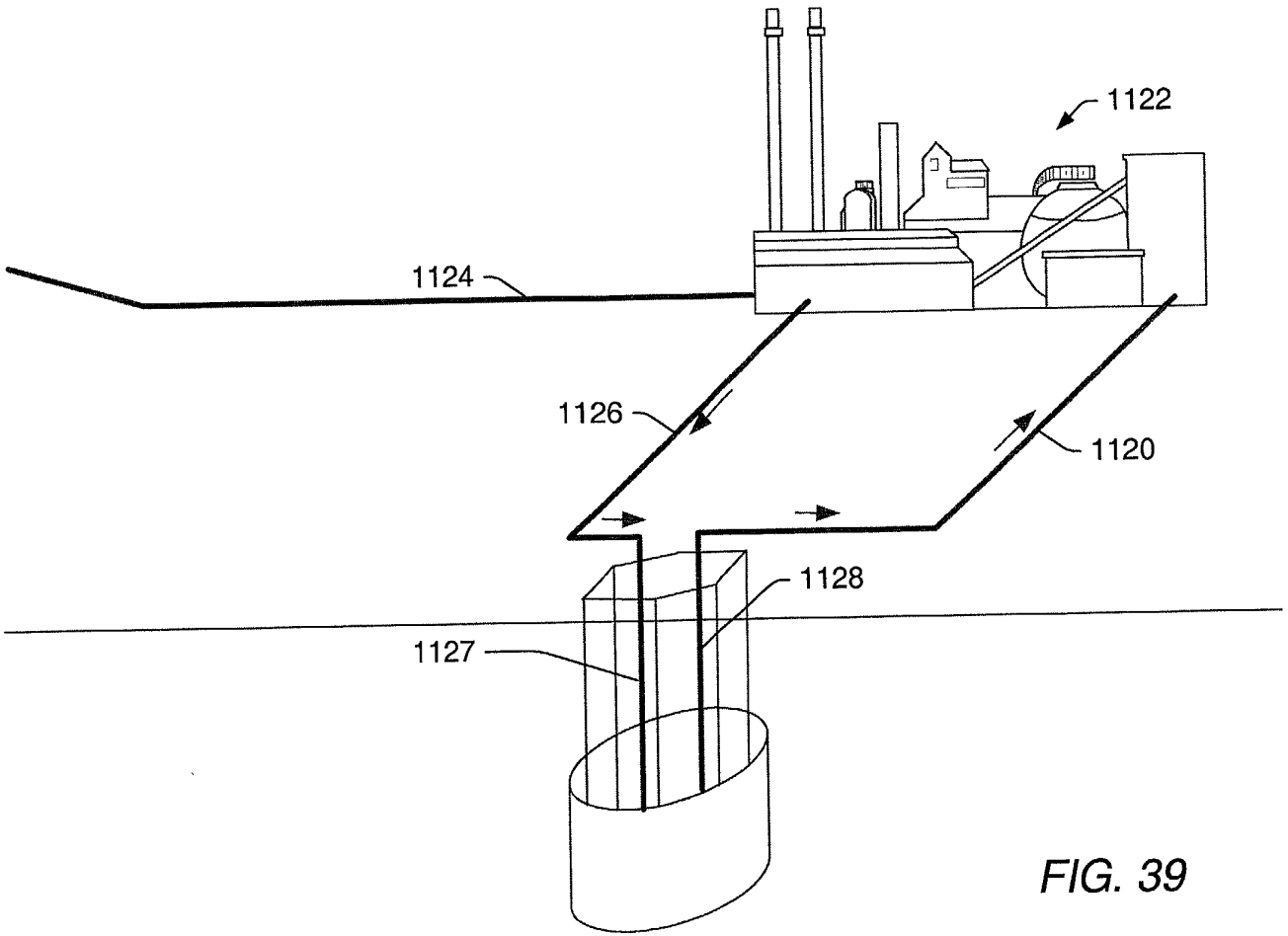


FIG. 39

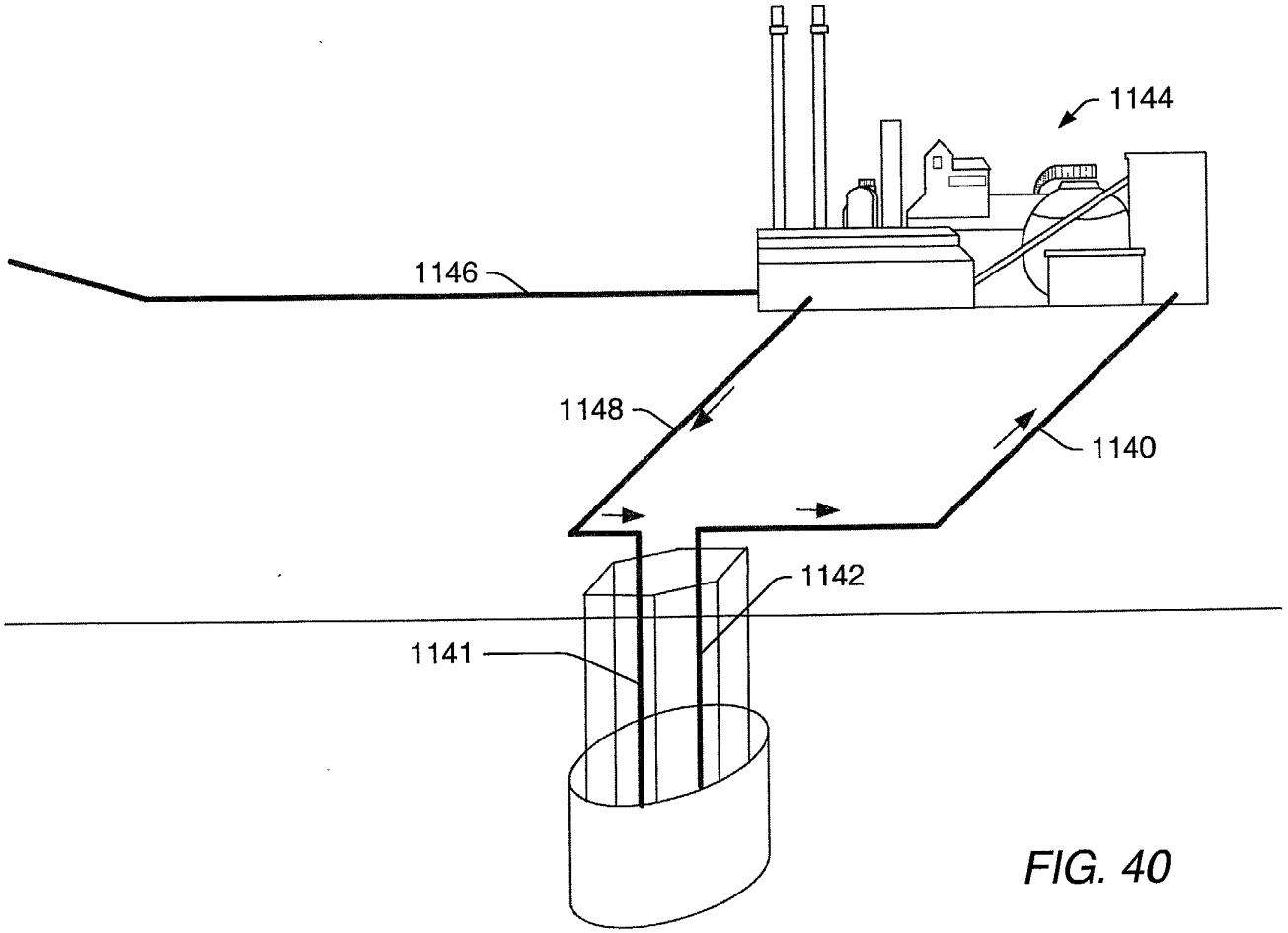


FIG. 40

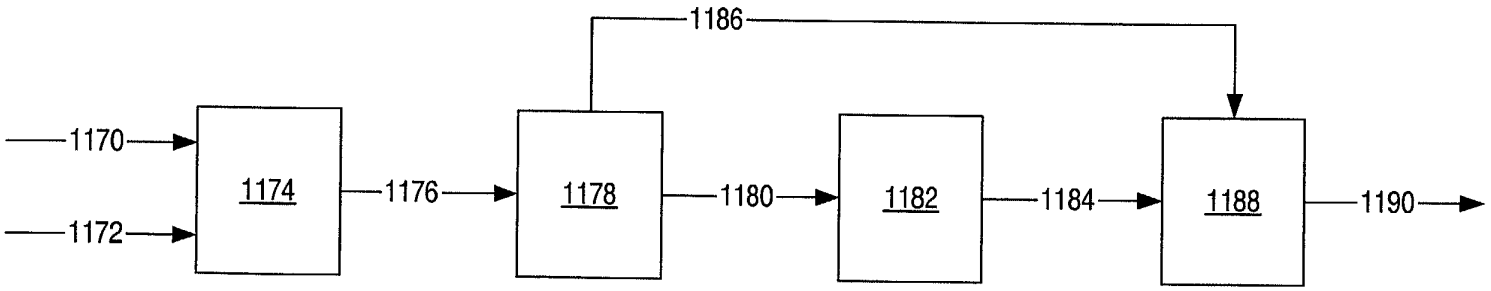


FIG. 41

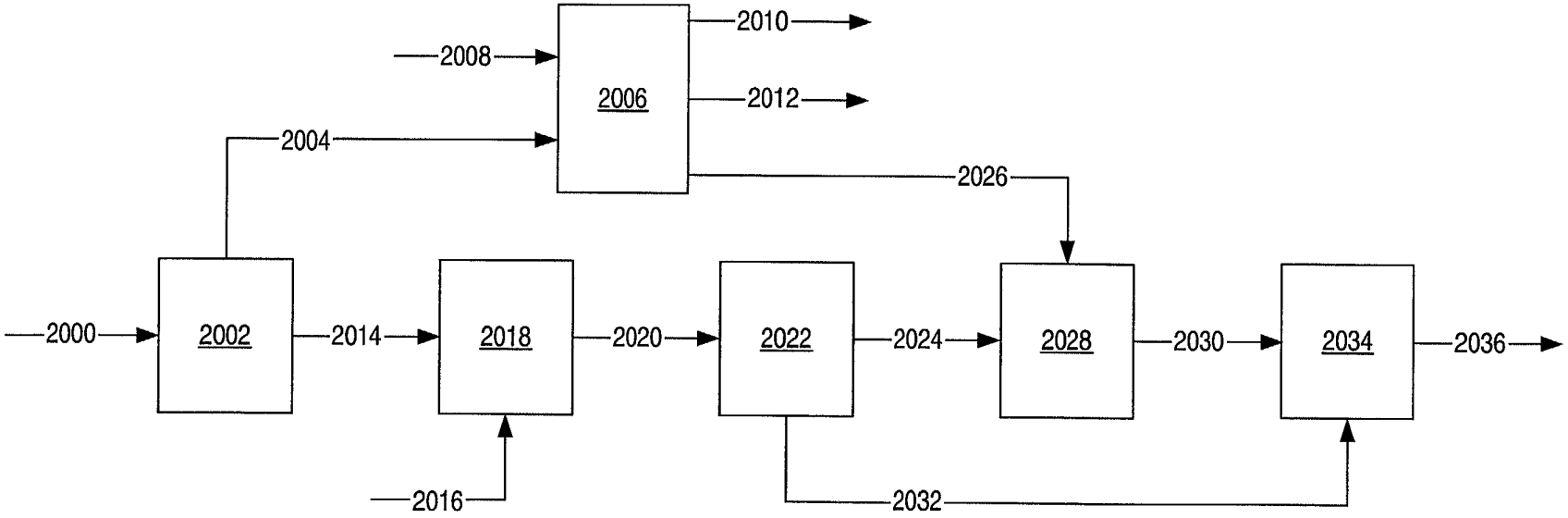


FIG. 42

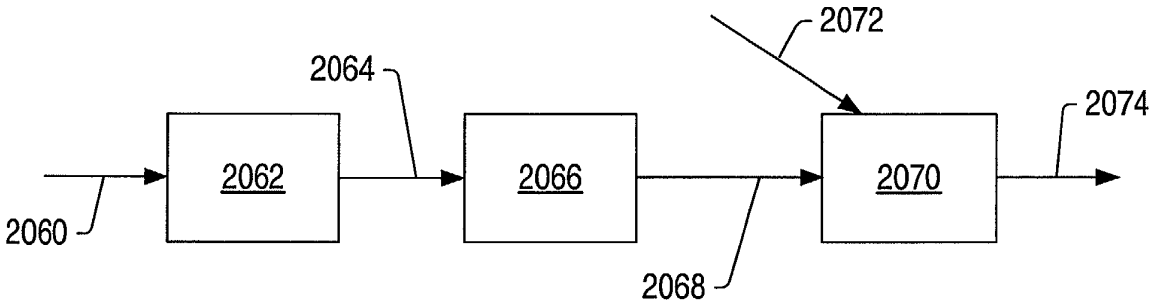
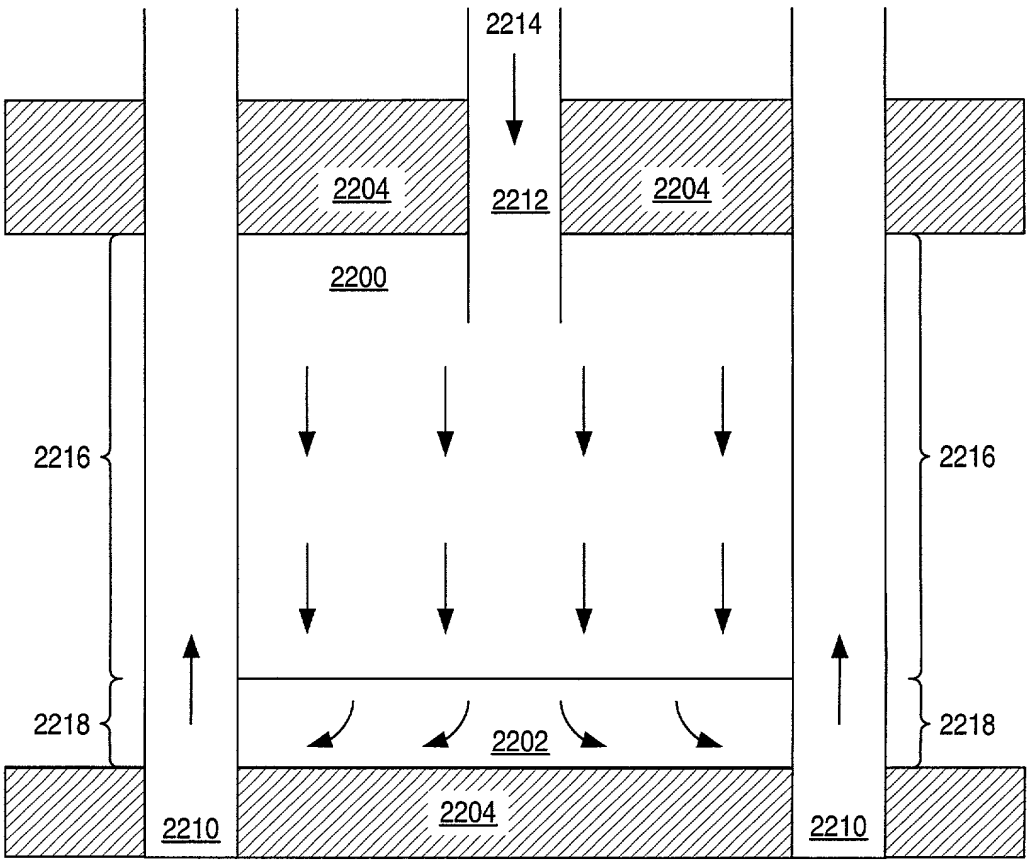


FIG. 43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2218
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2210
2204
2210

FIG. 44

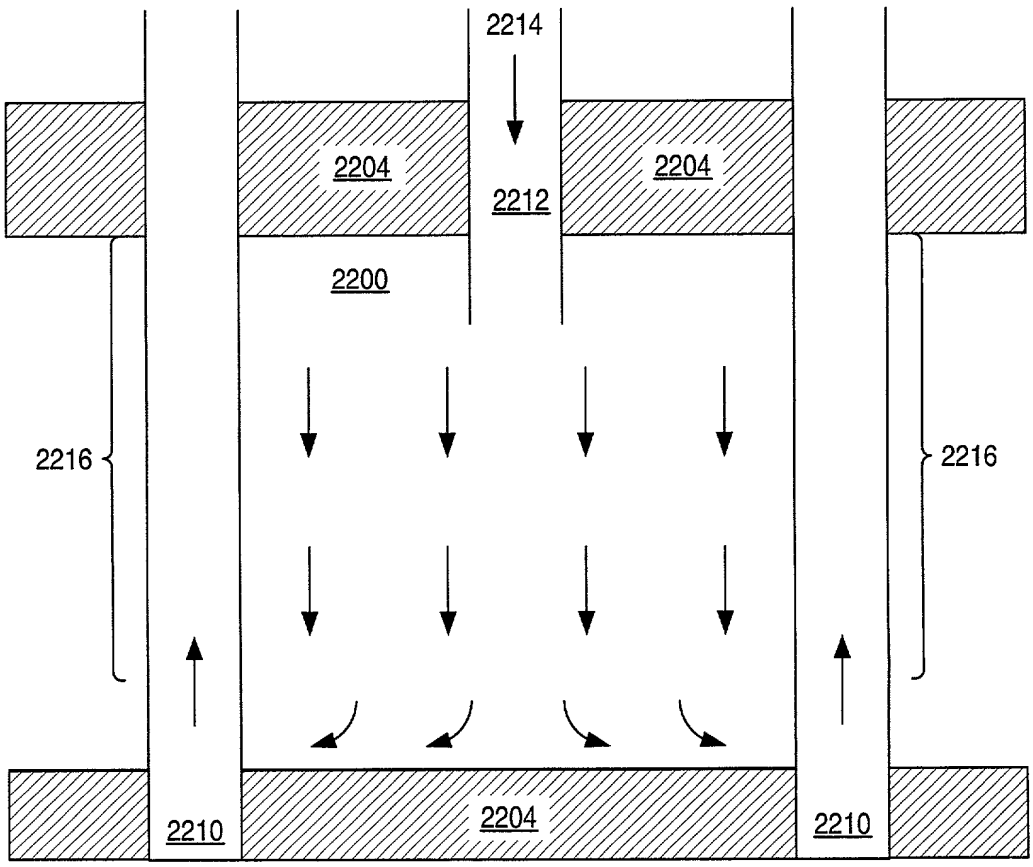
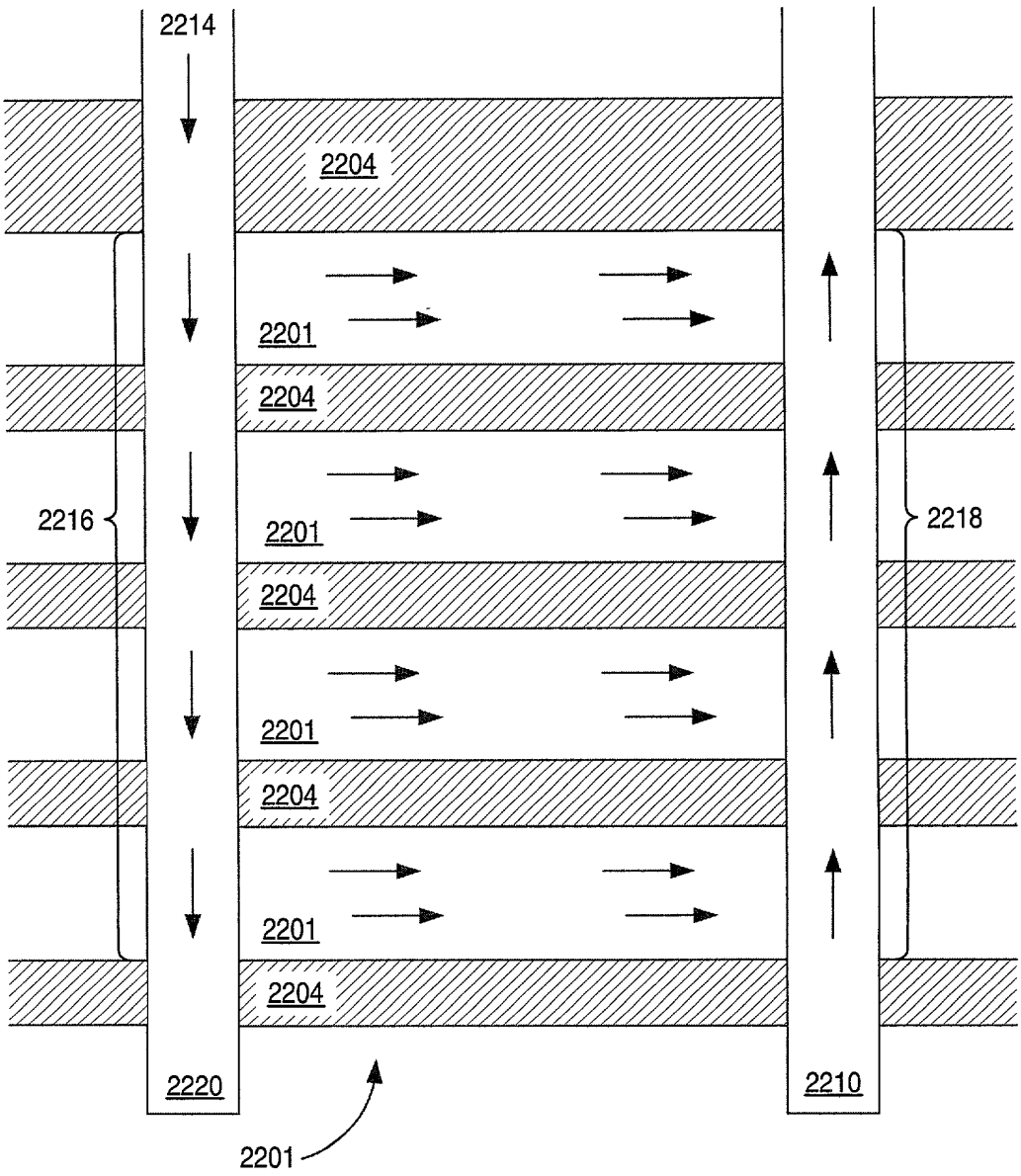


FIG. 45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2201
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2201
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2210
2201

FIG. 46

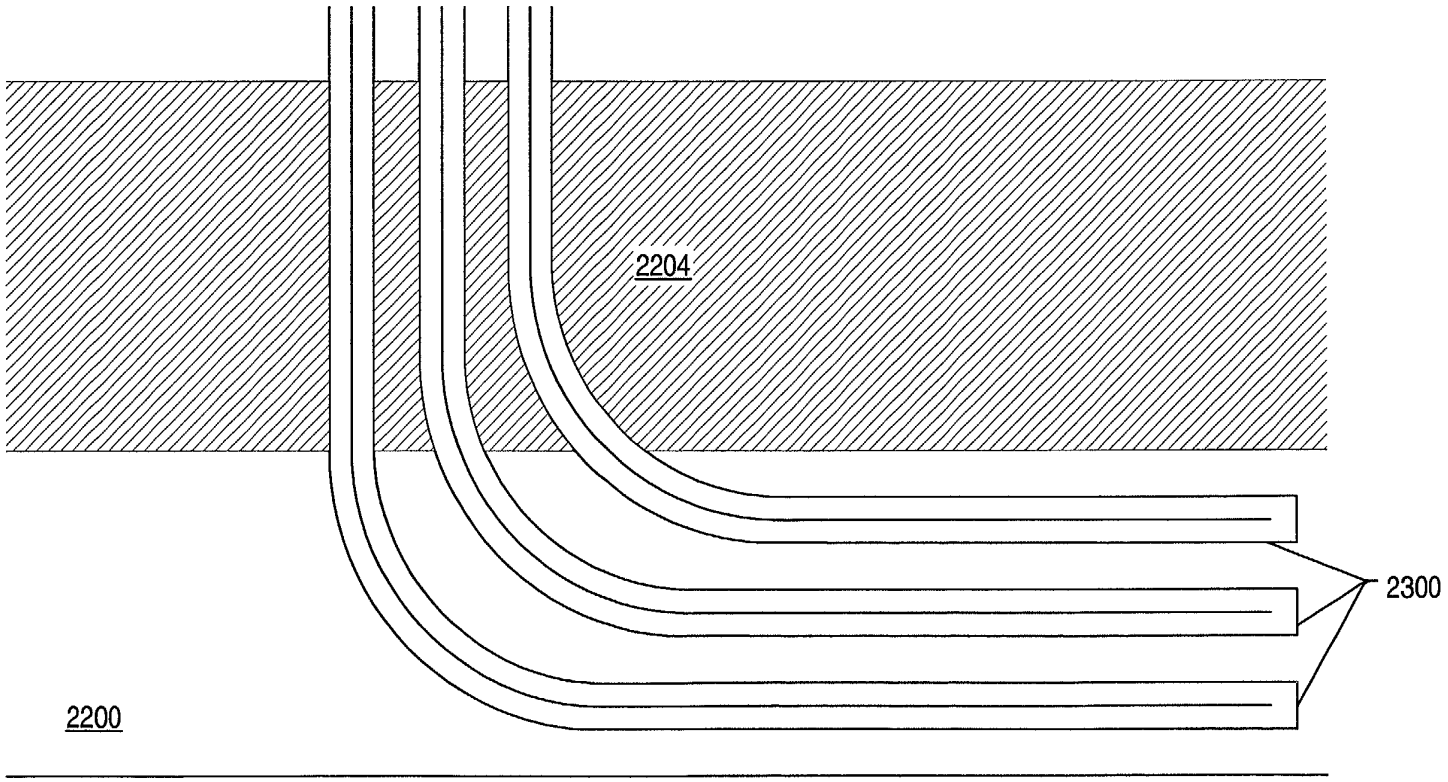


FIG. 47

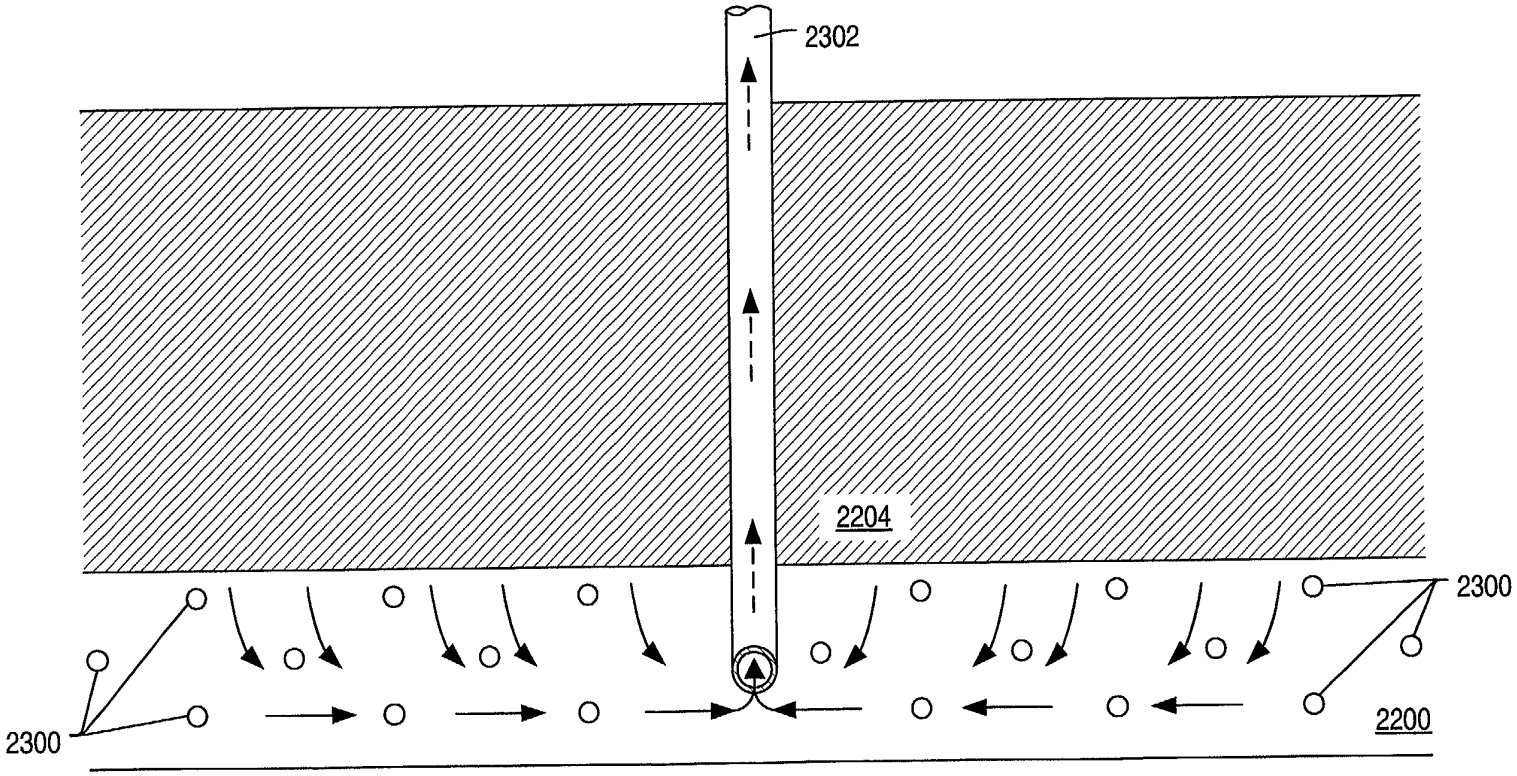


FIG. 48

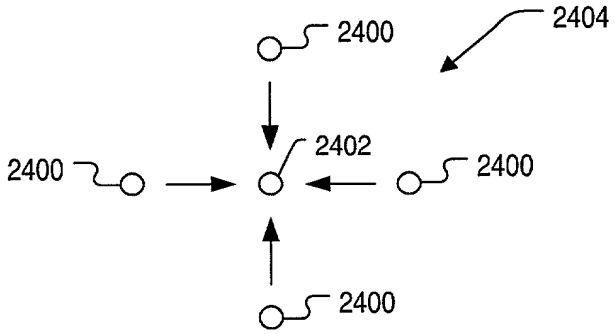
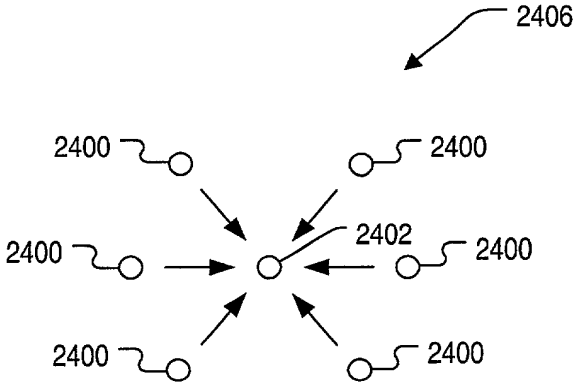

2400
2404
2402
2400
2400
2400

FIG. 49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2400
2402
2400
2400
2400
2400

FIG. 50

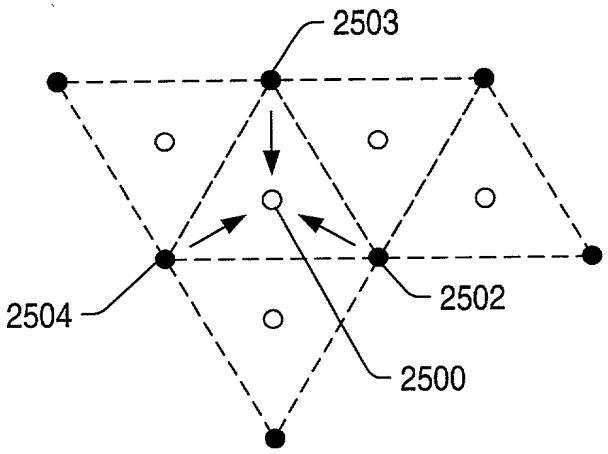


FIG. 51

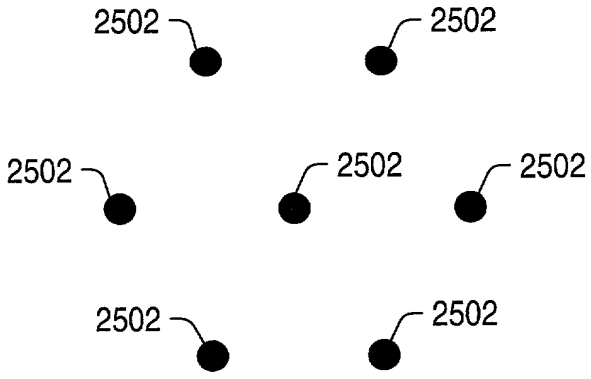
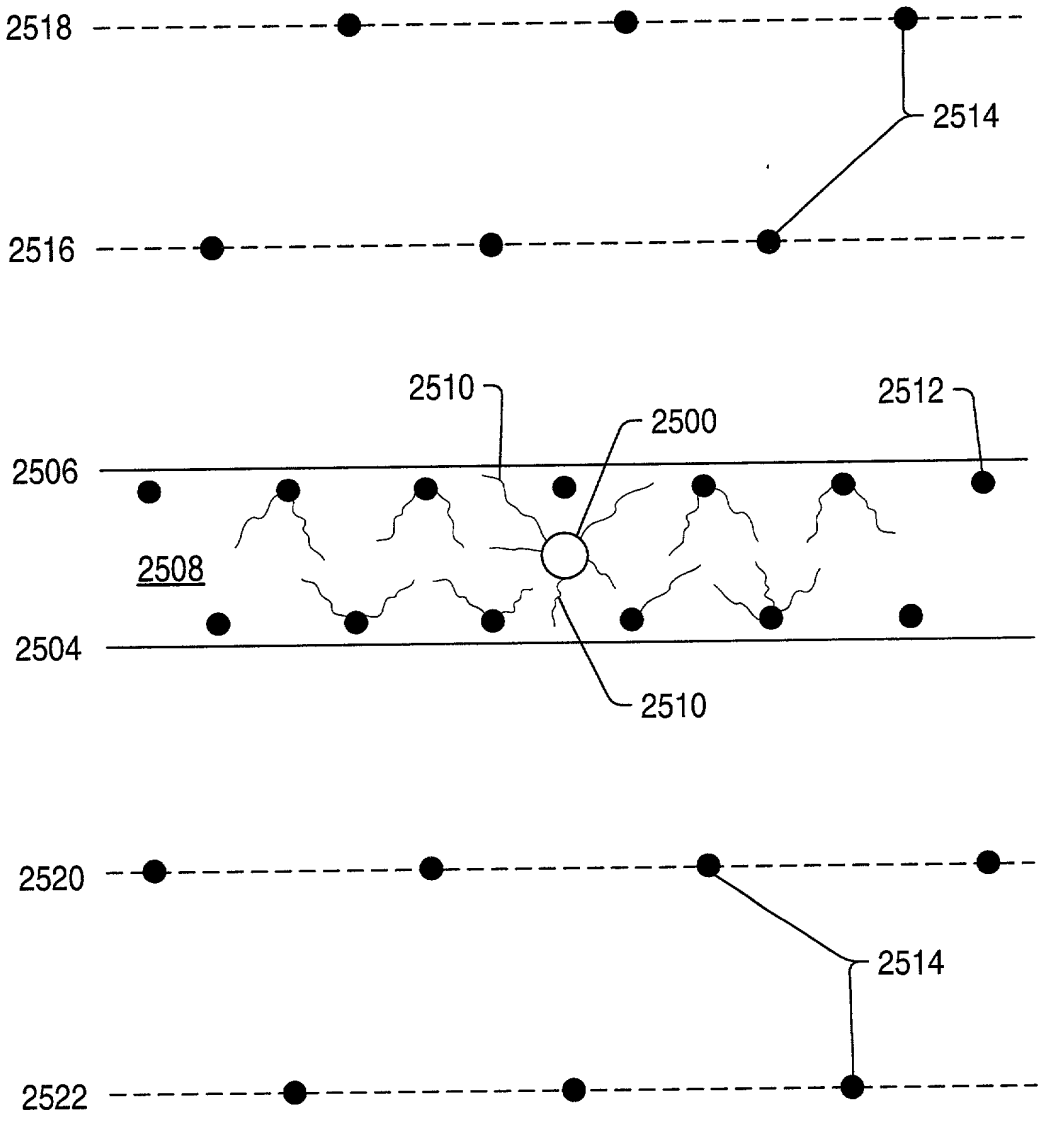


FIG. 52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2516
2510
2500
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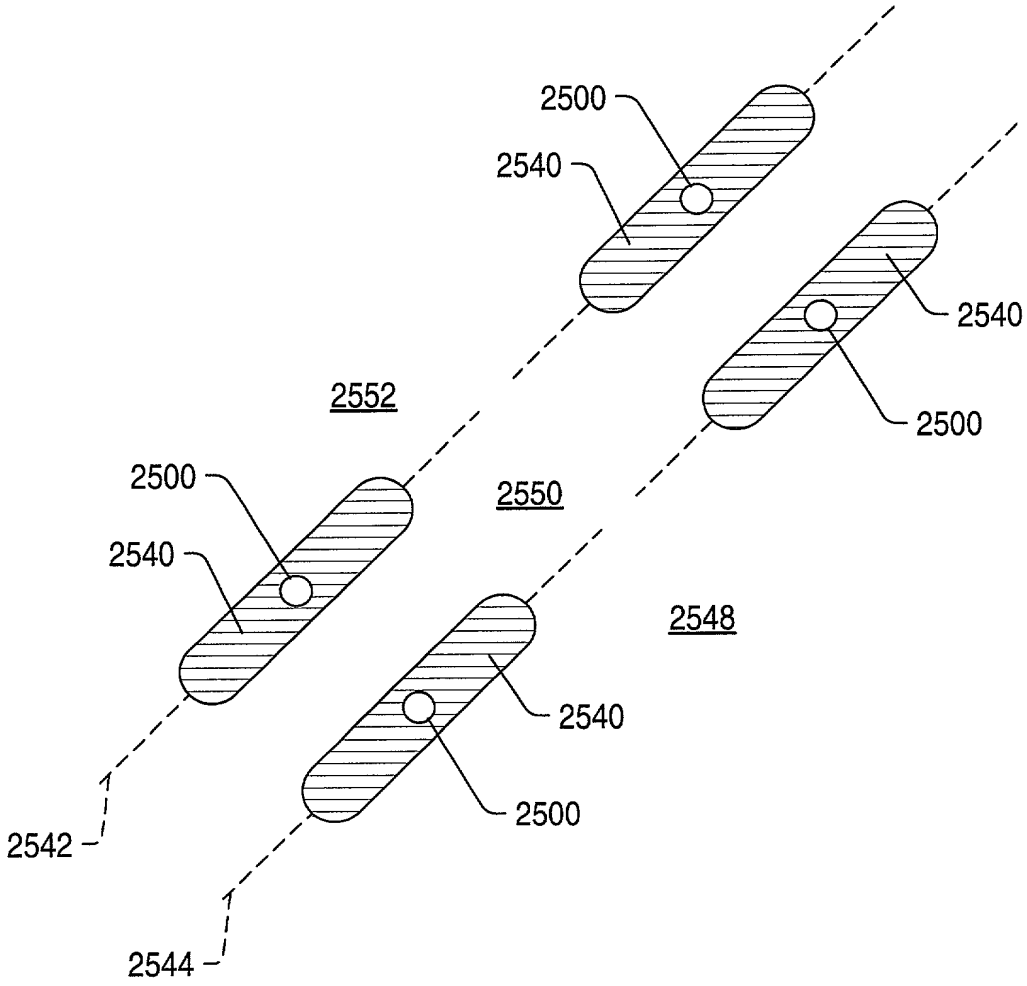
2506
2508
2504
2510
2520
2514
2522

FIG. 53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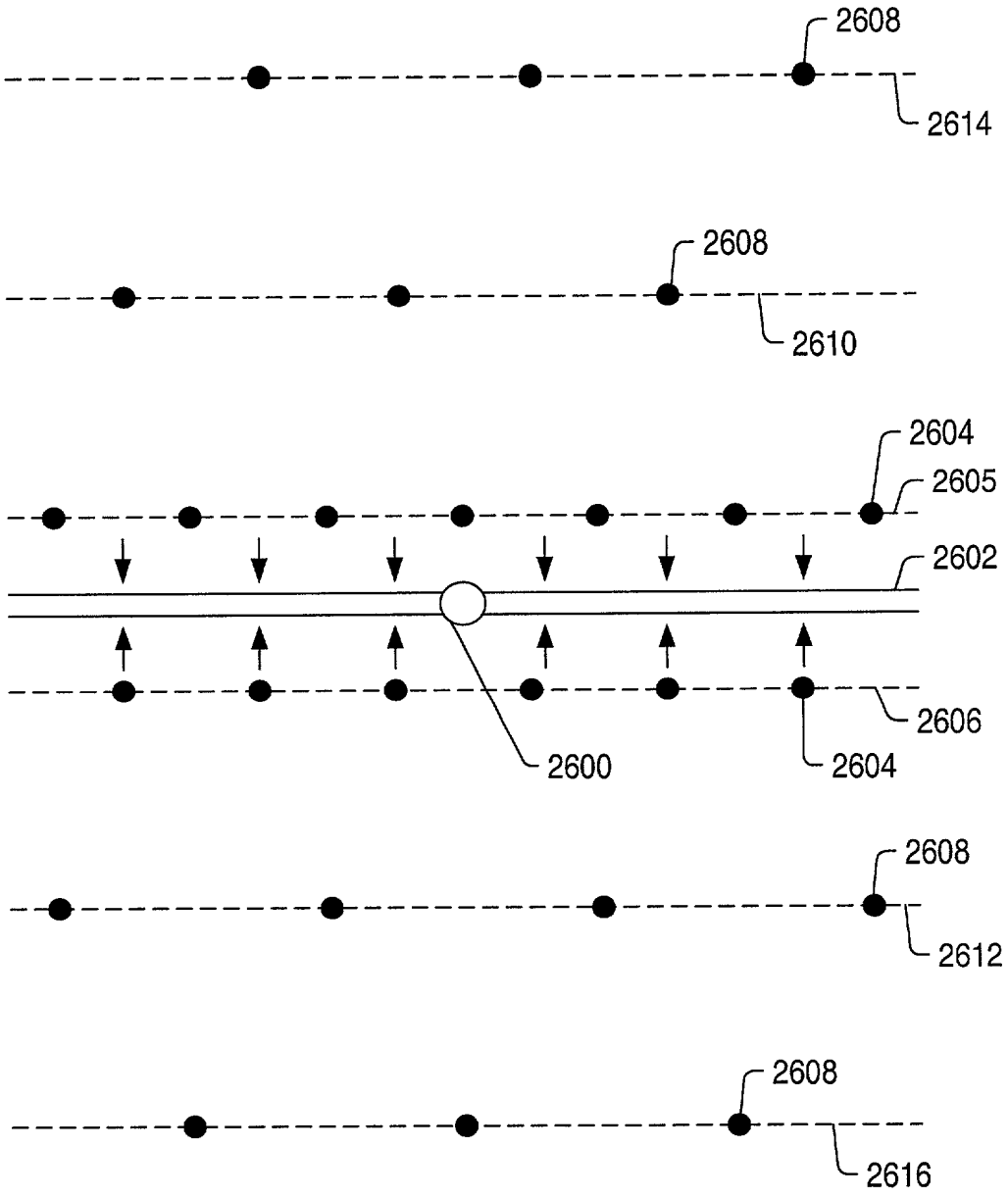
2550
2540
2548
2540
2500
2542
2544

FIG. 54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2614
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2610
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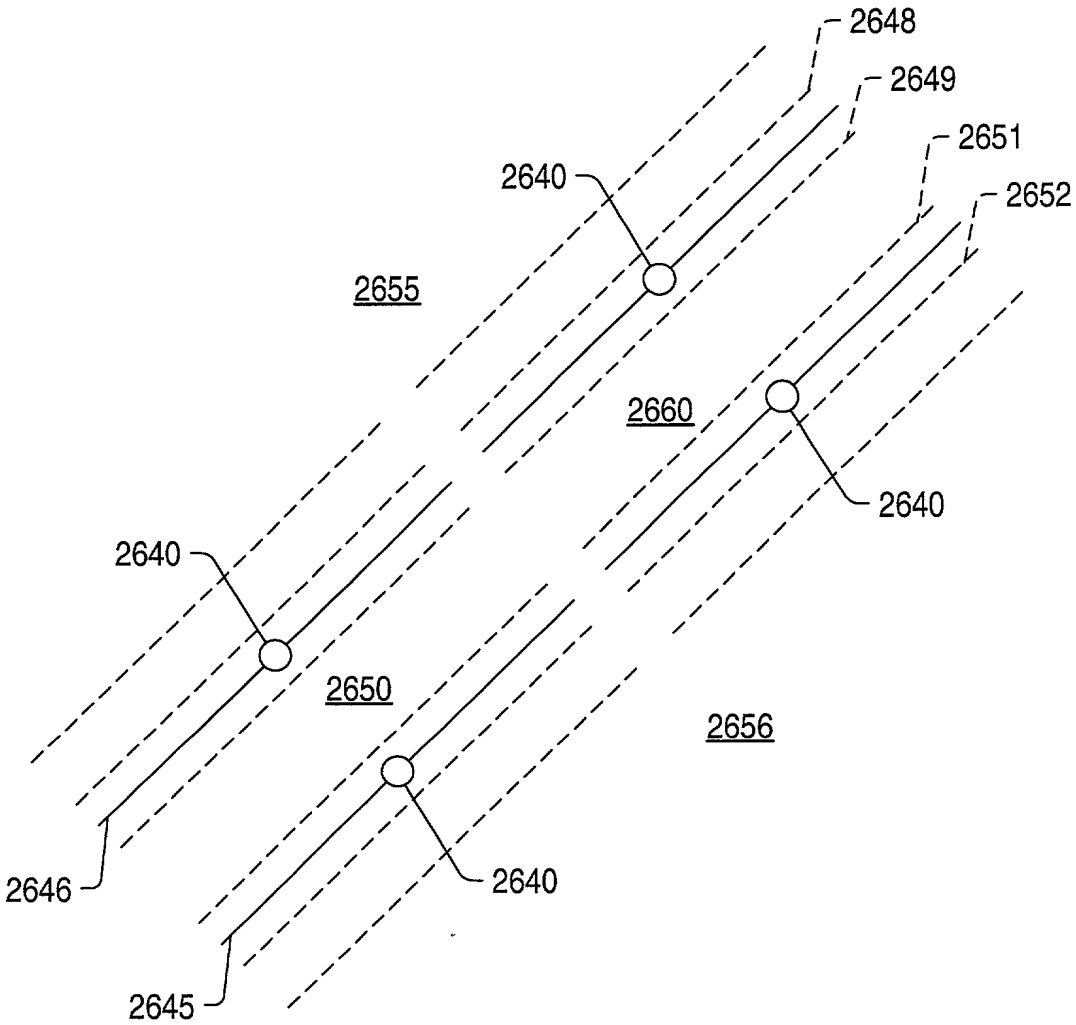
2602
2606
2600
2604
2608
2612
2608
2616

FIG. 55


2648
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2640
2650
2656
2646
2640
2645

FIG. 56

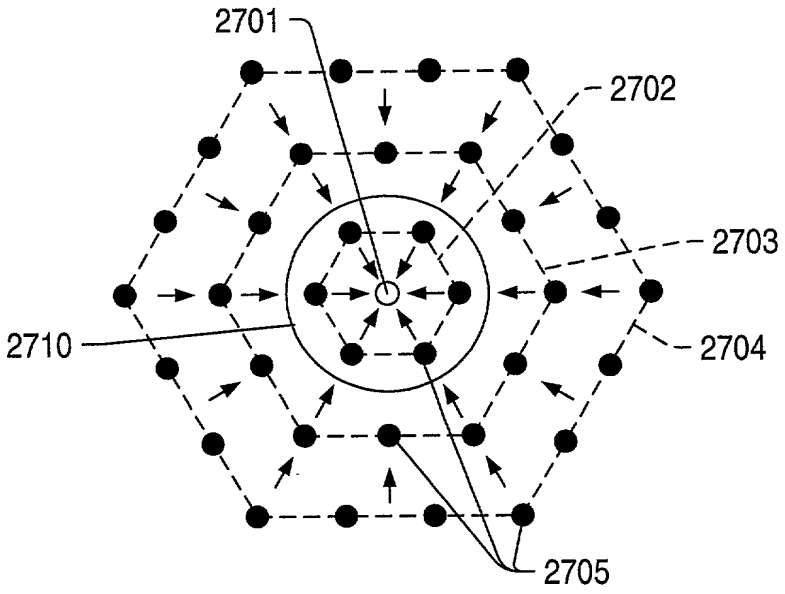


FIG. 57

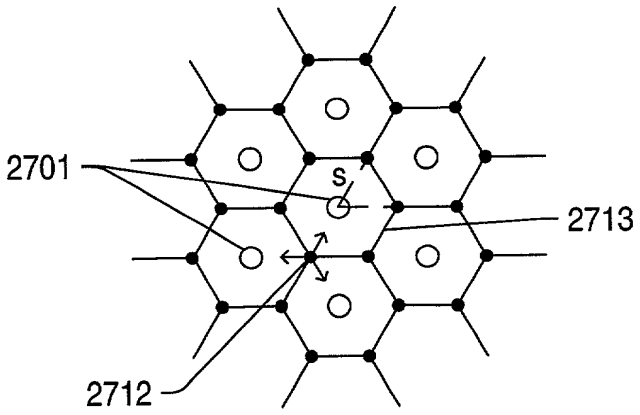


FIG. 58

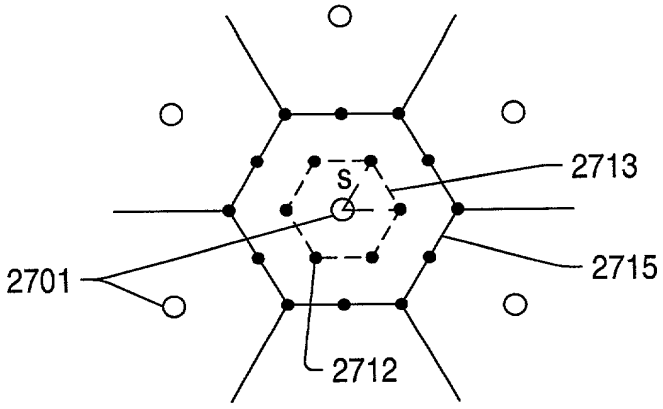


FIG. 59

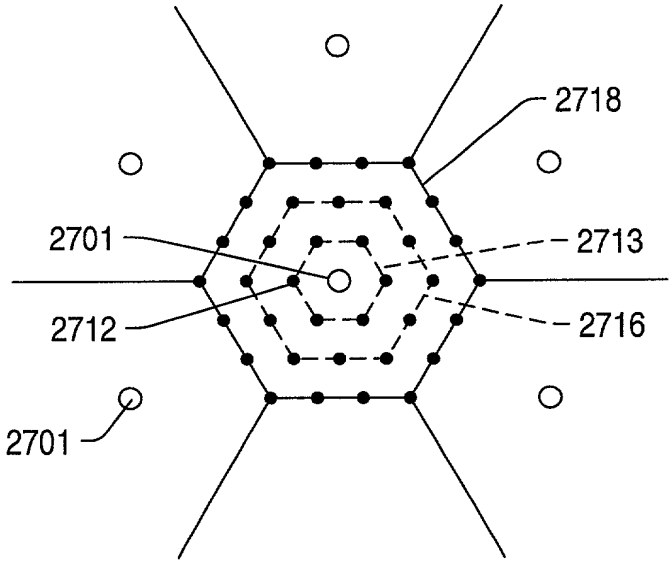


FIG. 60

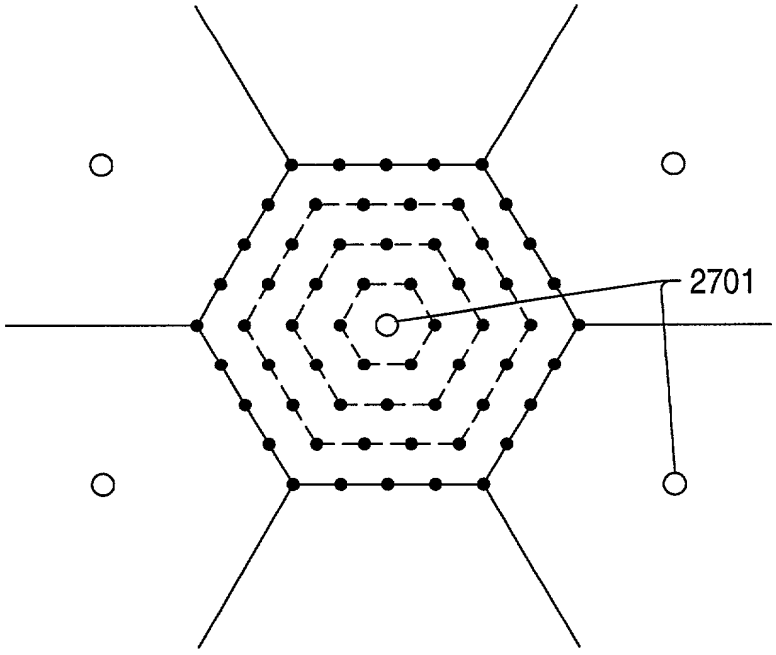


FIG. 61

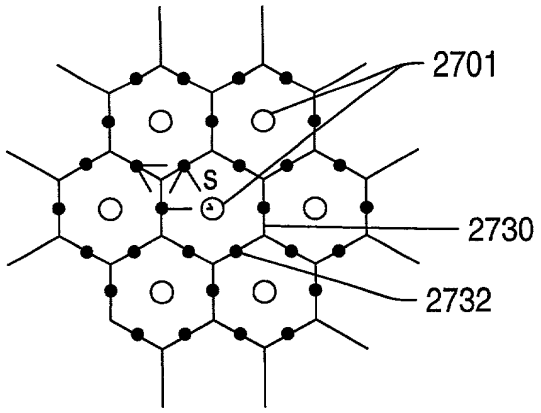


FIG. 62

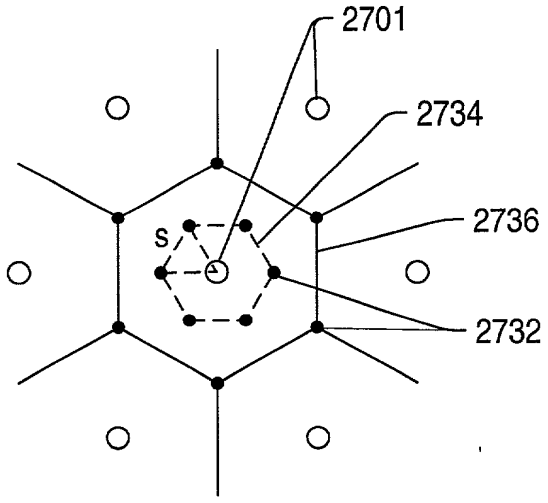


FIG. 63

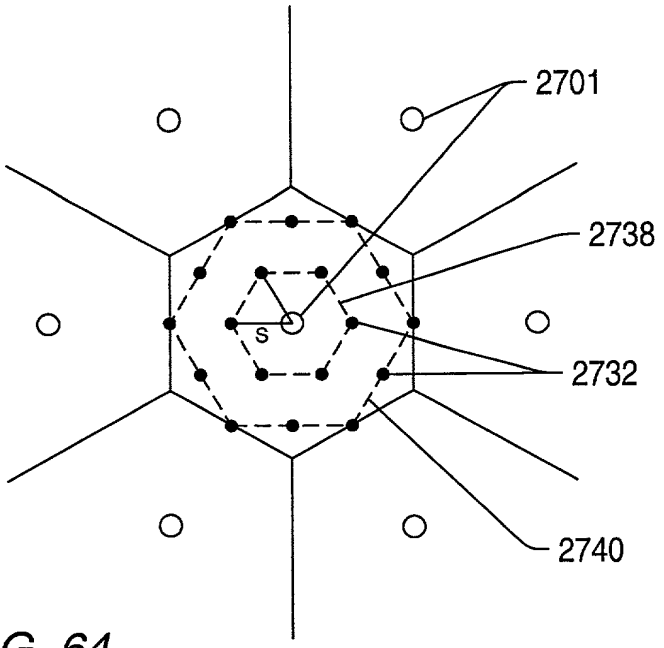


FIG. 64

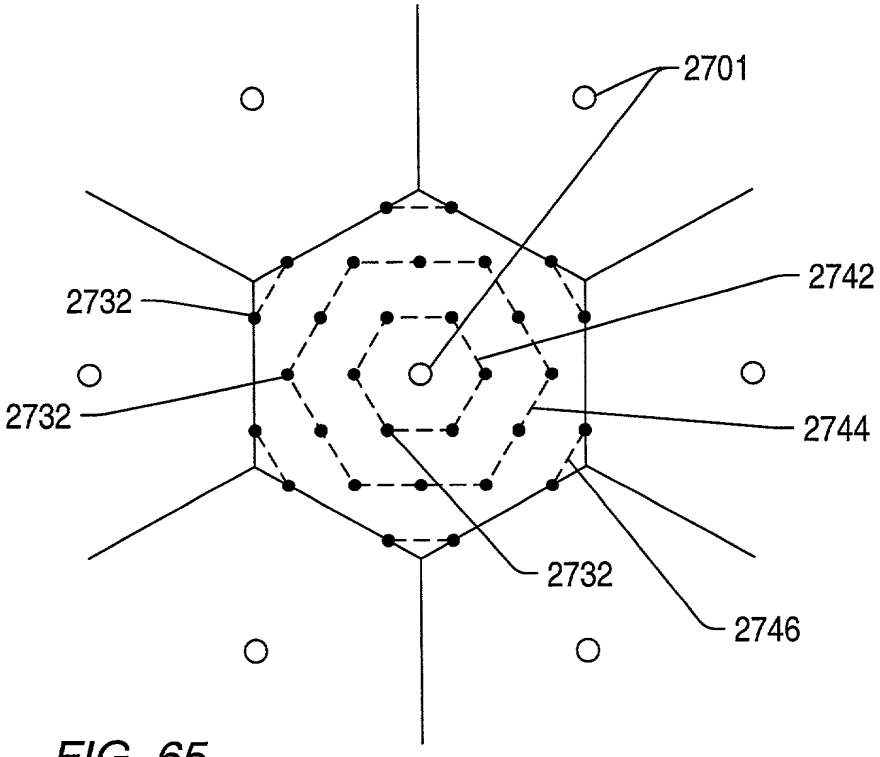


FIG. 65

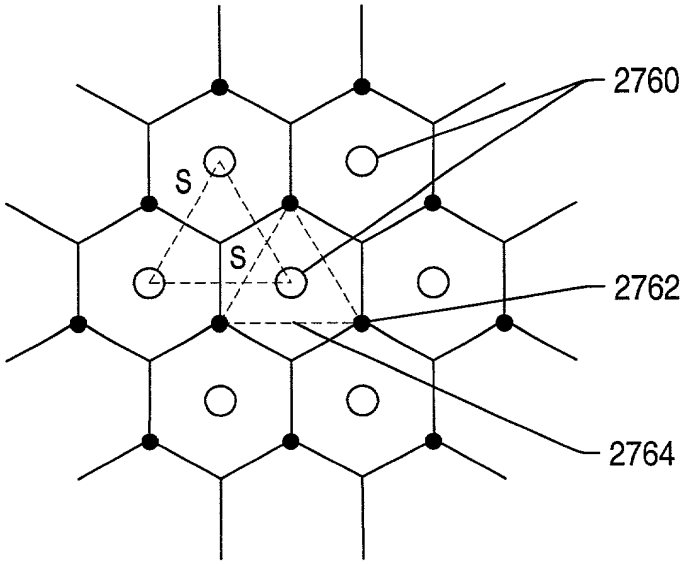


FIG. 66

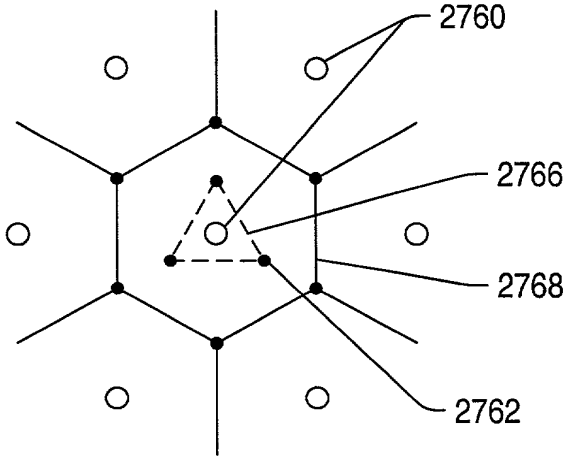


FIG. 67

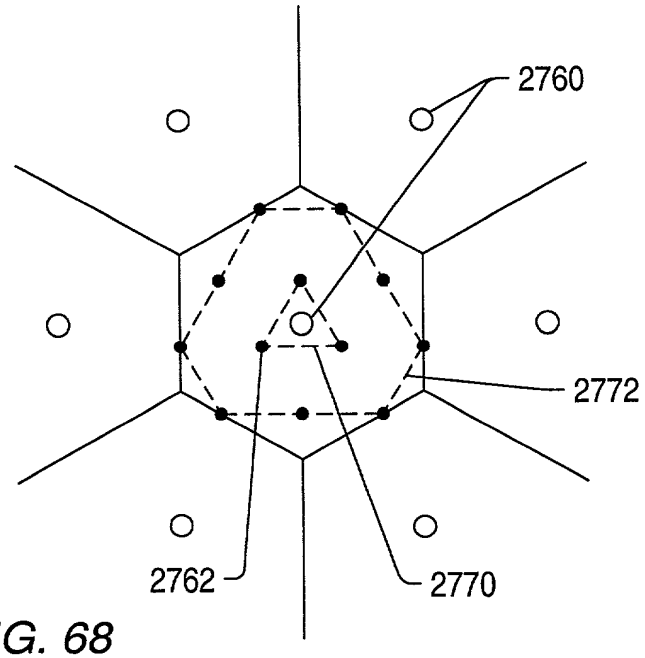


FIG. 68

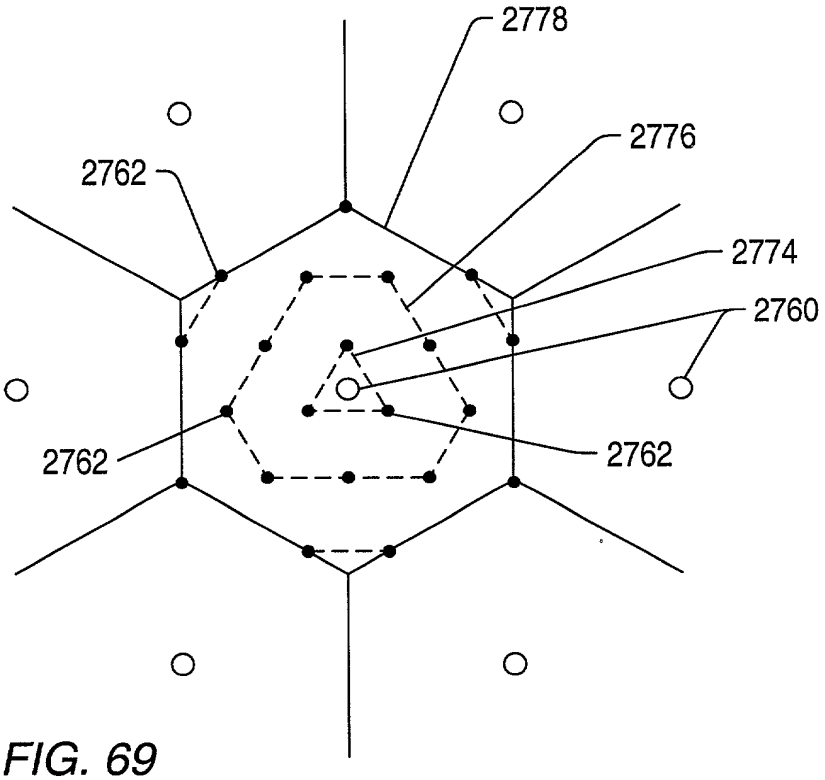


FIG. 69

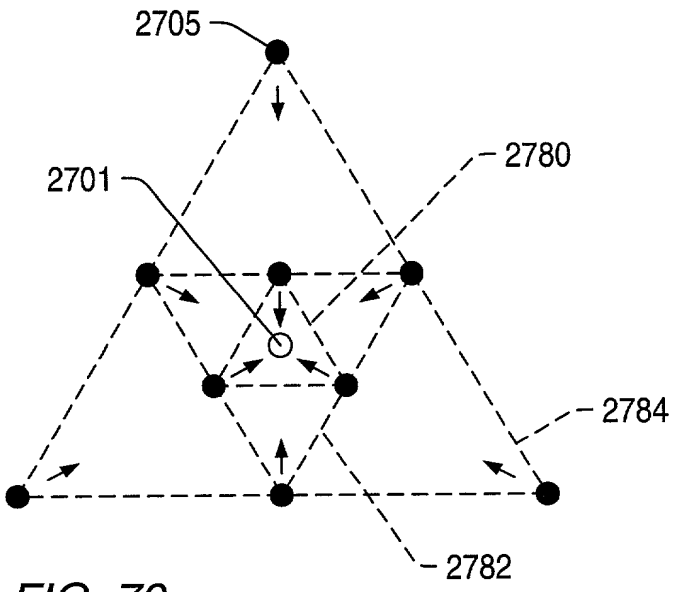
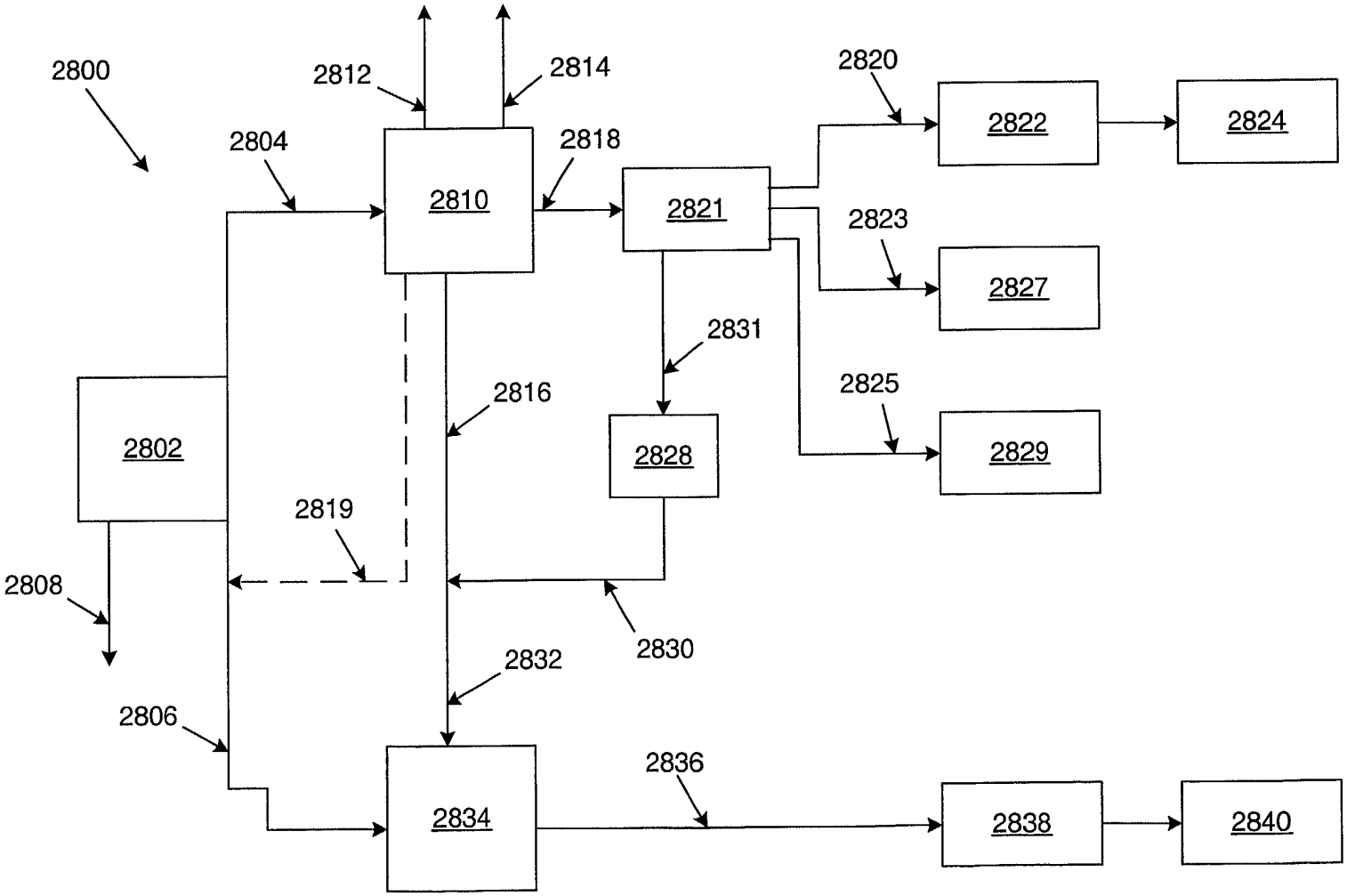


FIG. 70


2800
2812
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2804
2818
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2824
2810
2821
2823
2827
2831
2816
2825
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2829
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2808
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2832
2806
2836
2834
2838
2840

Fig. 71

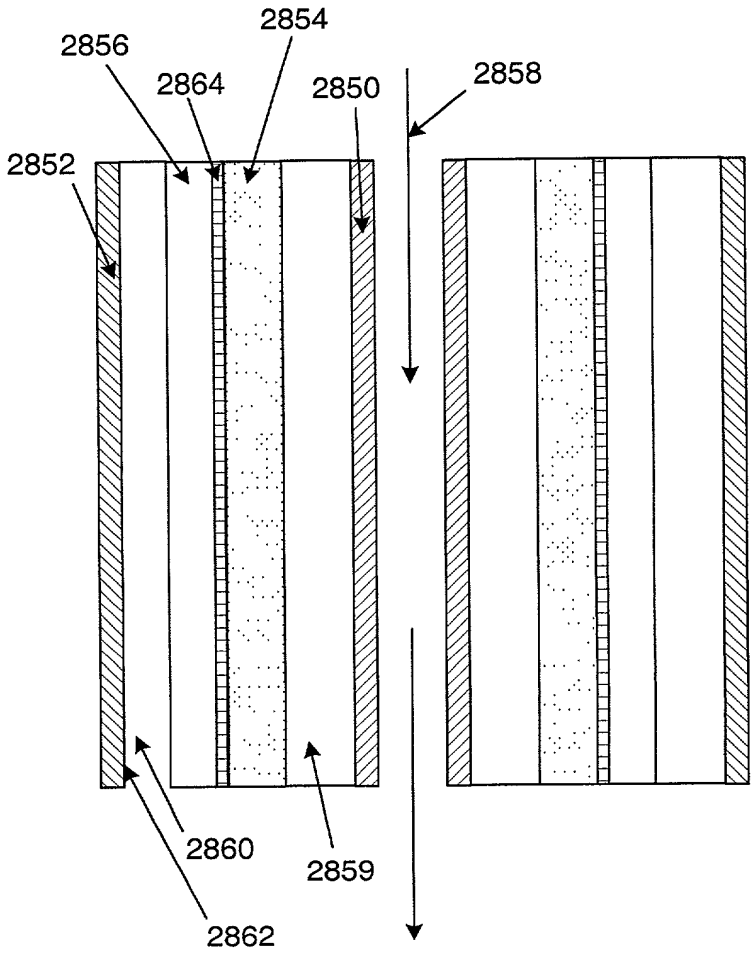


Fig. 72

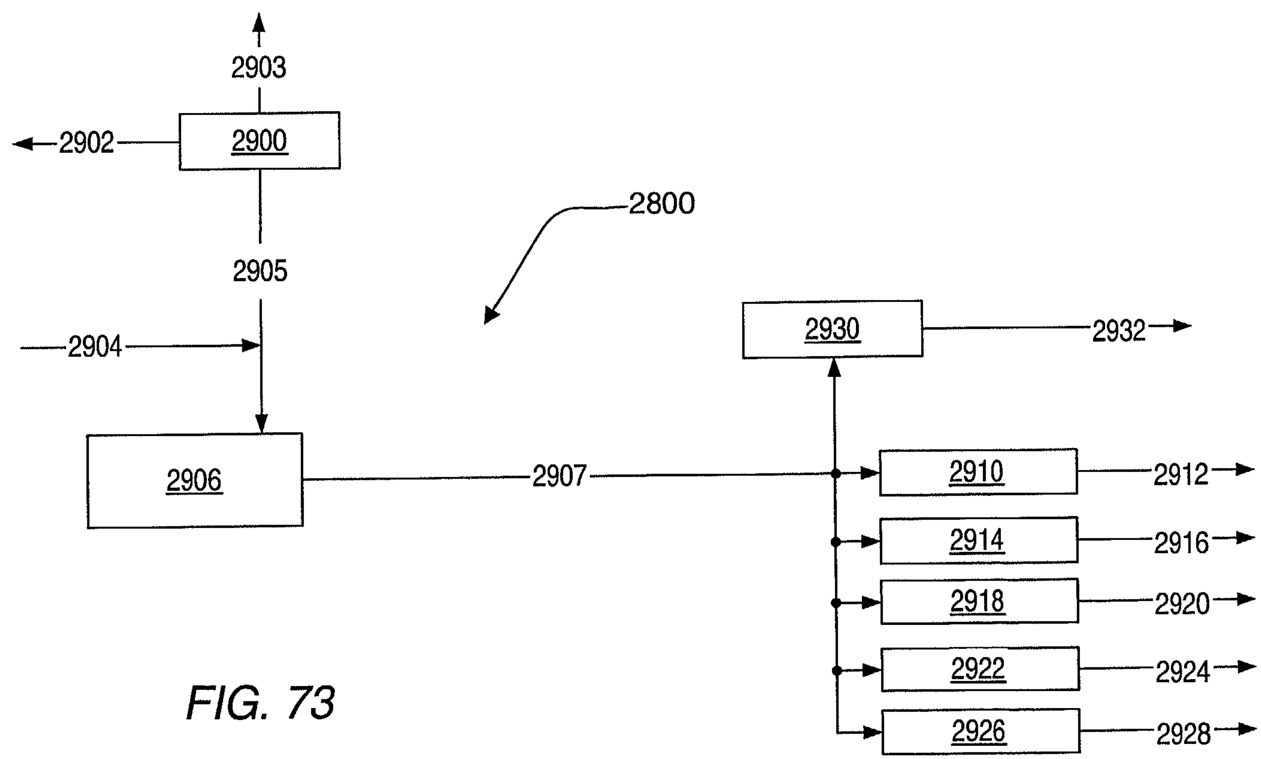

2903
2902
2900
2800
2905
2904
2930
2932
2906
2907
2910
2912
2914
2916
2918
2920
2922
2924
2926
2928

FIG. 73

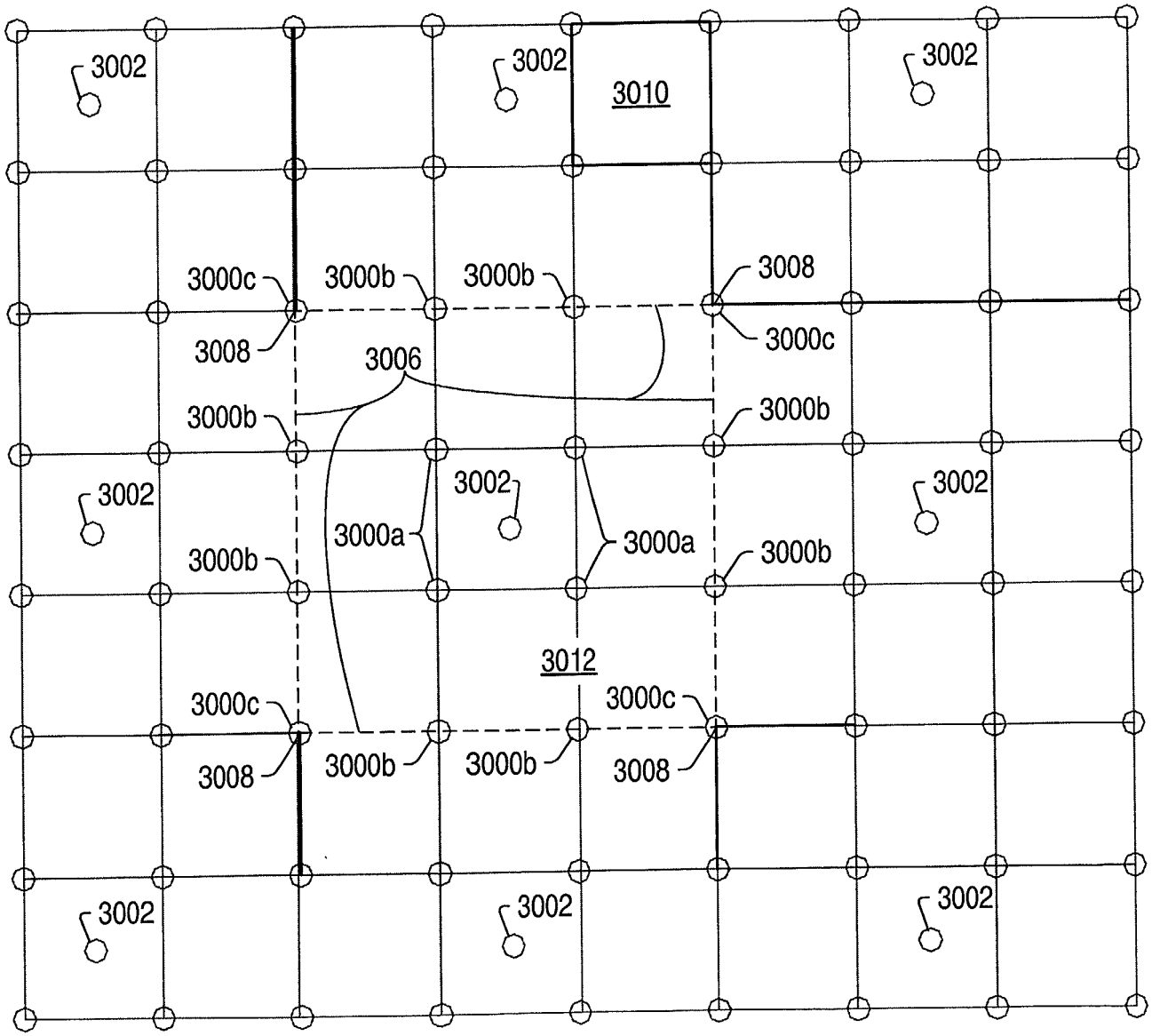


FIG. 74

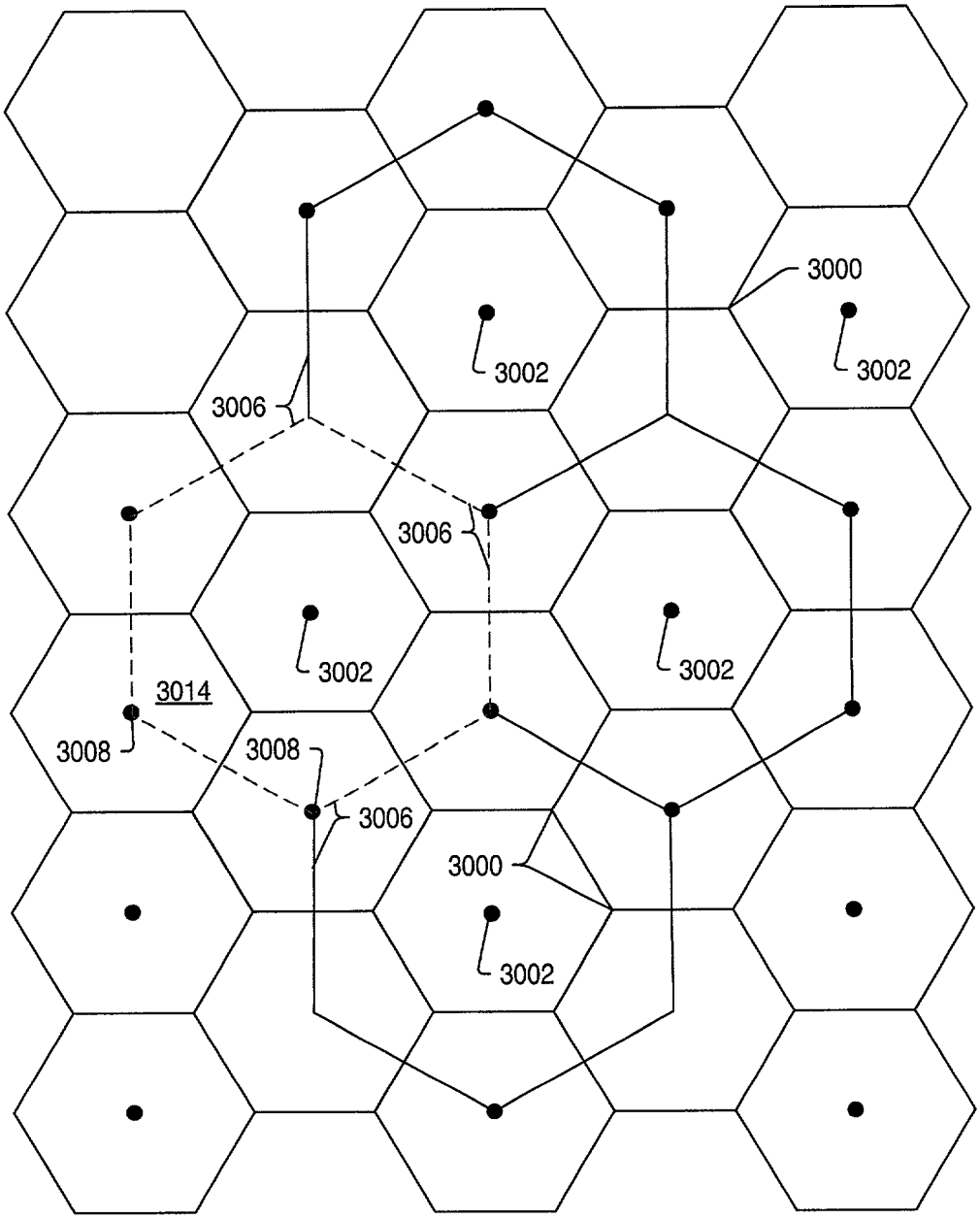

3000
3002
3002
3006
3006
3002
3002
3014
3008
3008
3006
3000
3002

FIG. 75

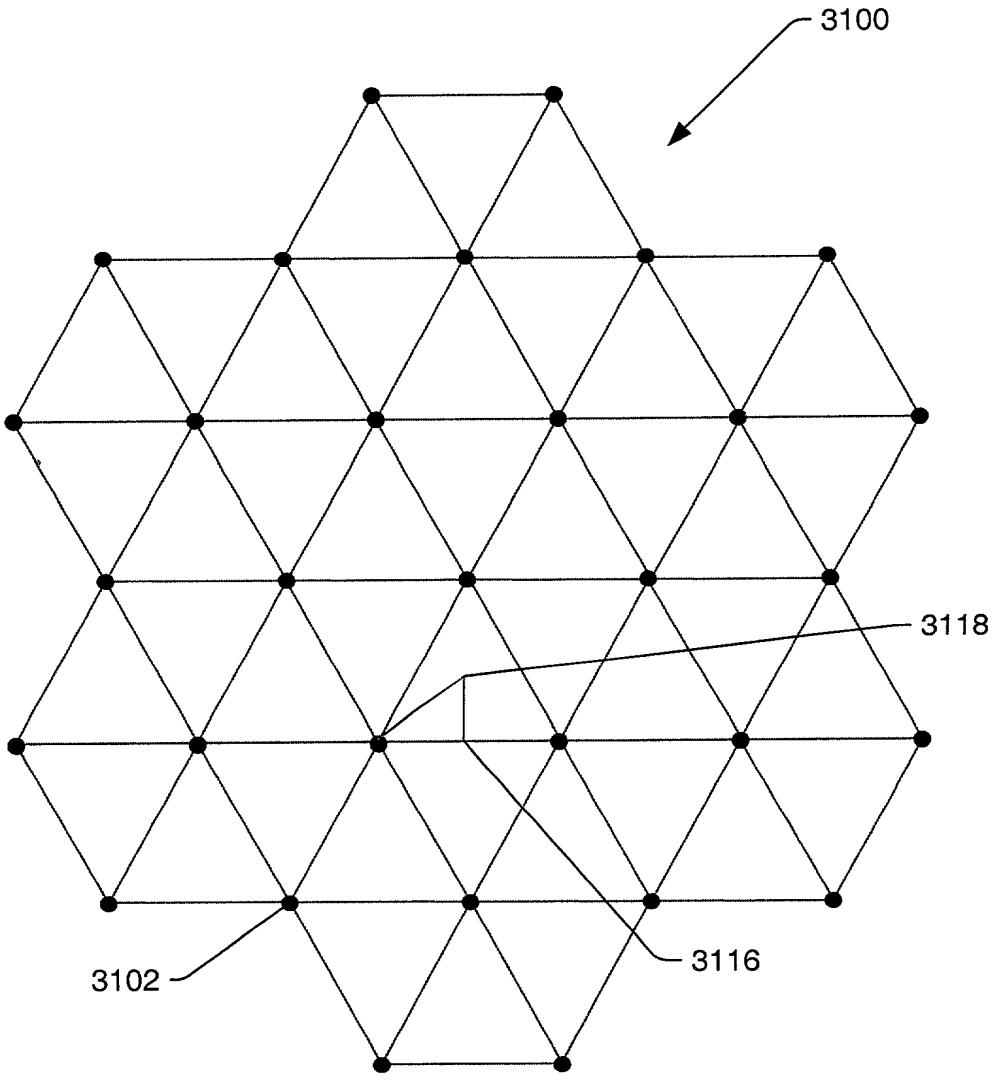


FIG. 76

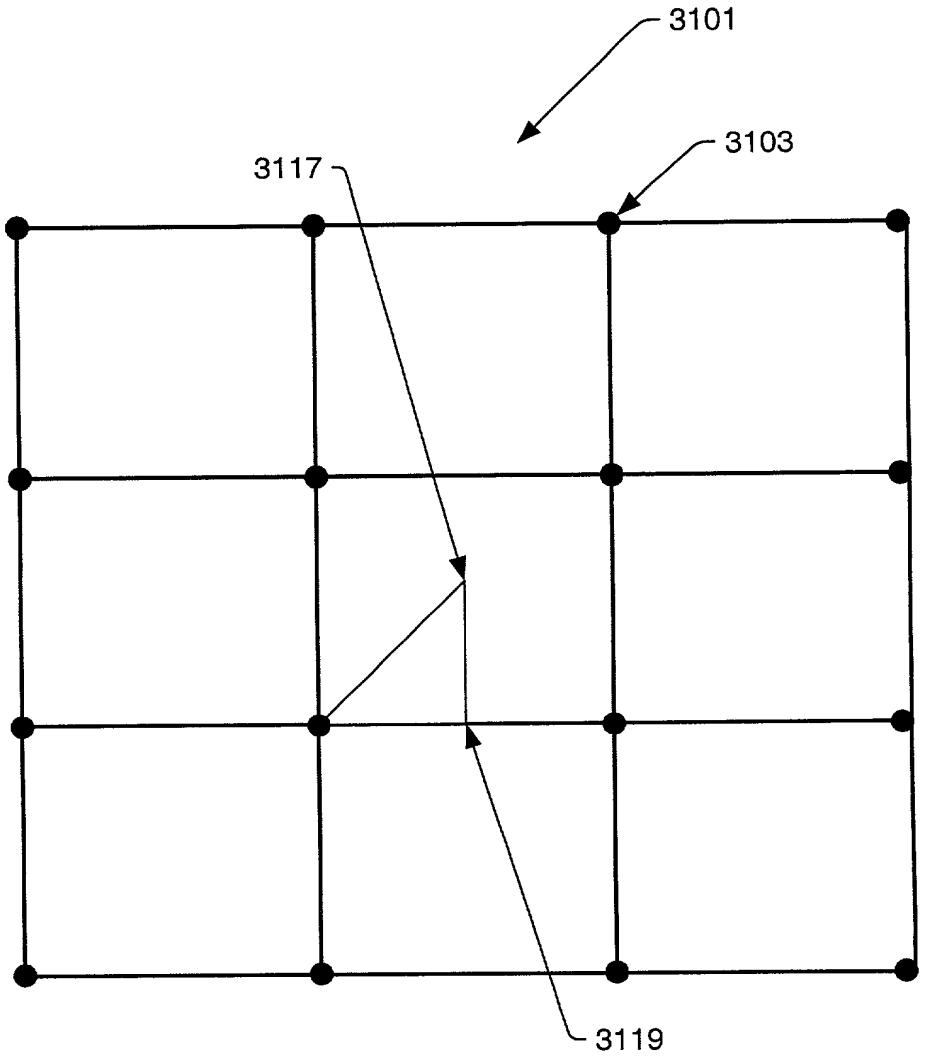


FIG. 76a

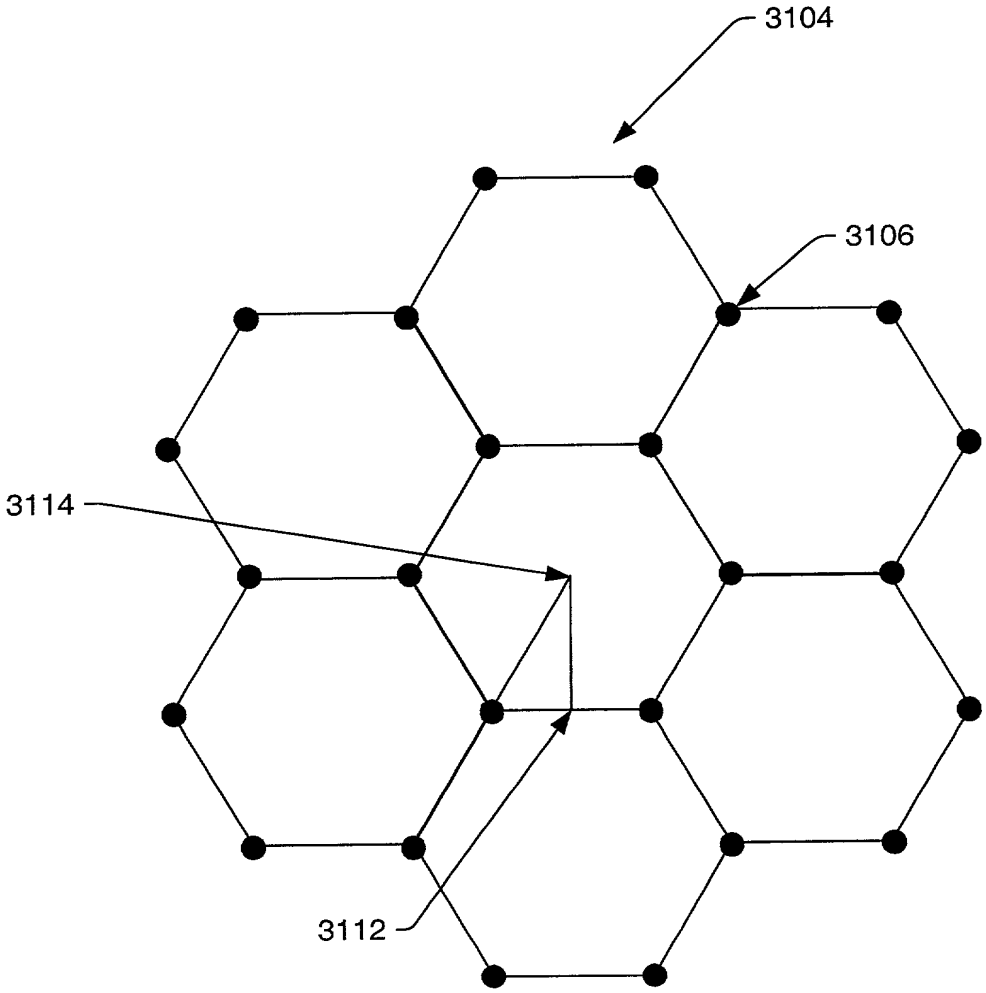


FIG. 77

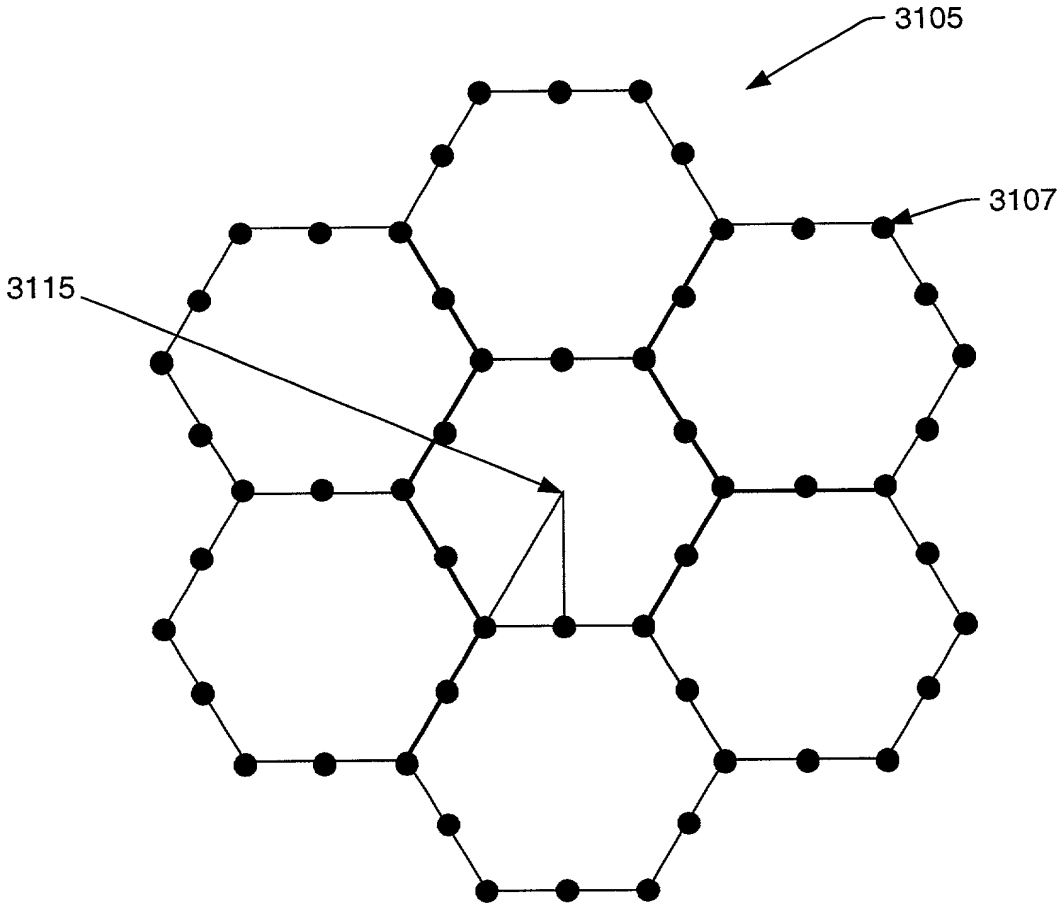


FIG. 77a

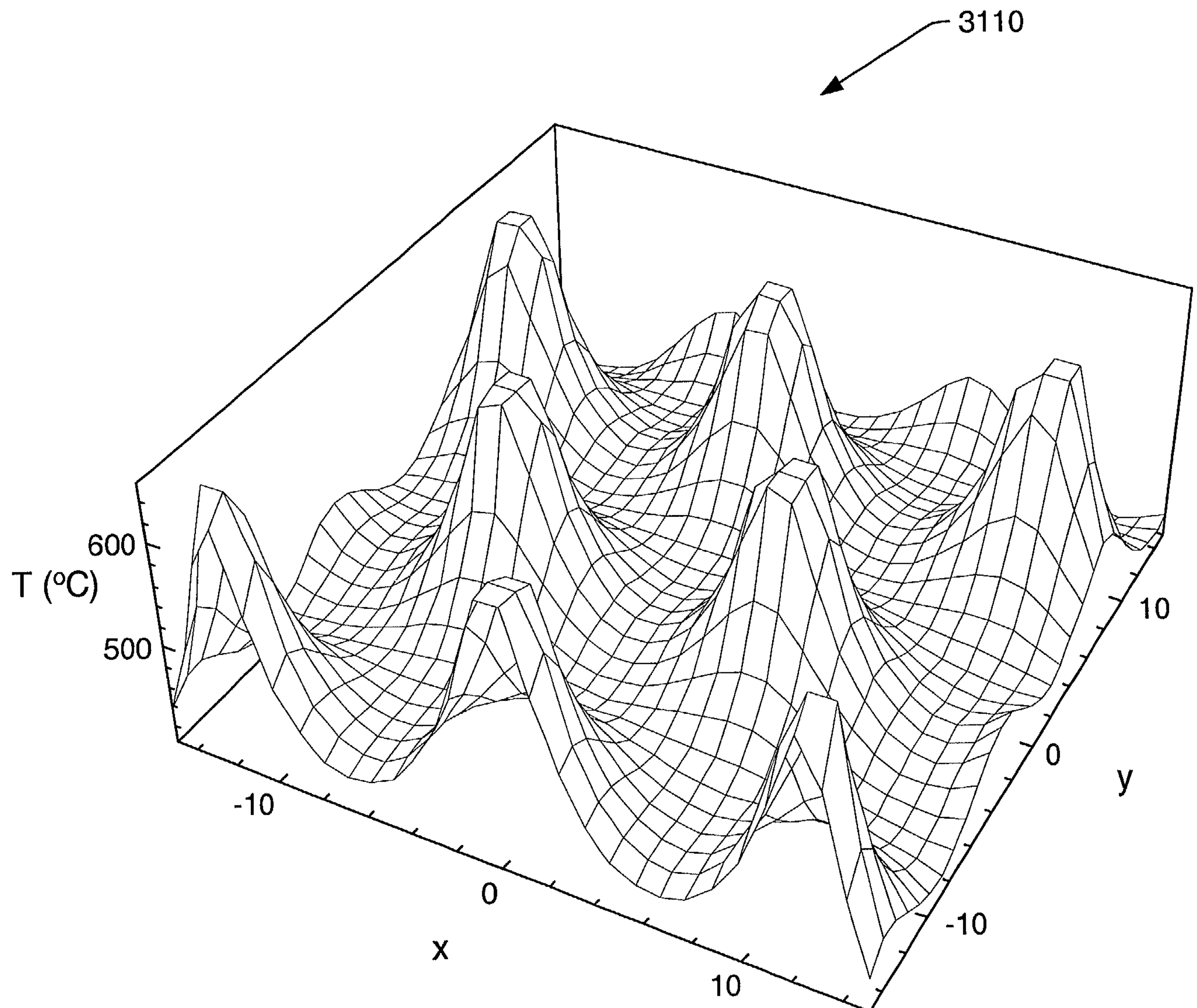


FIG. 78

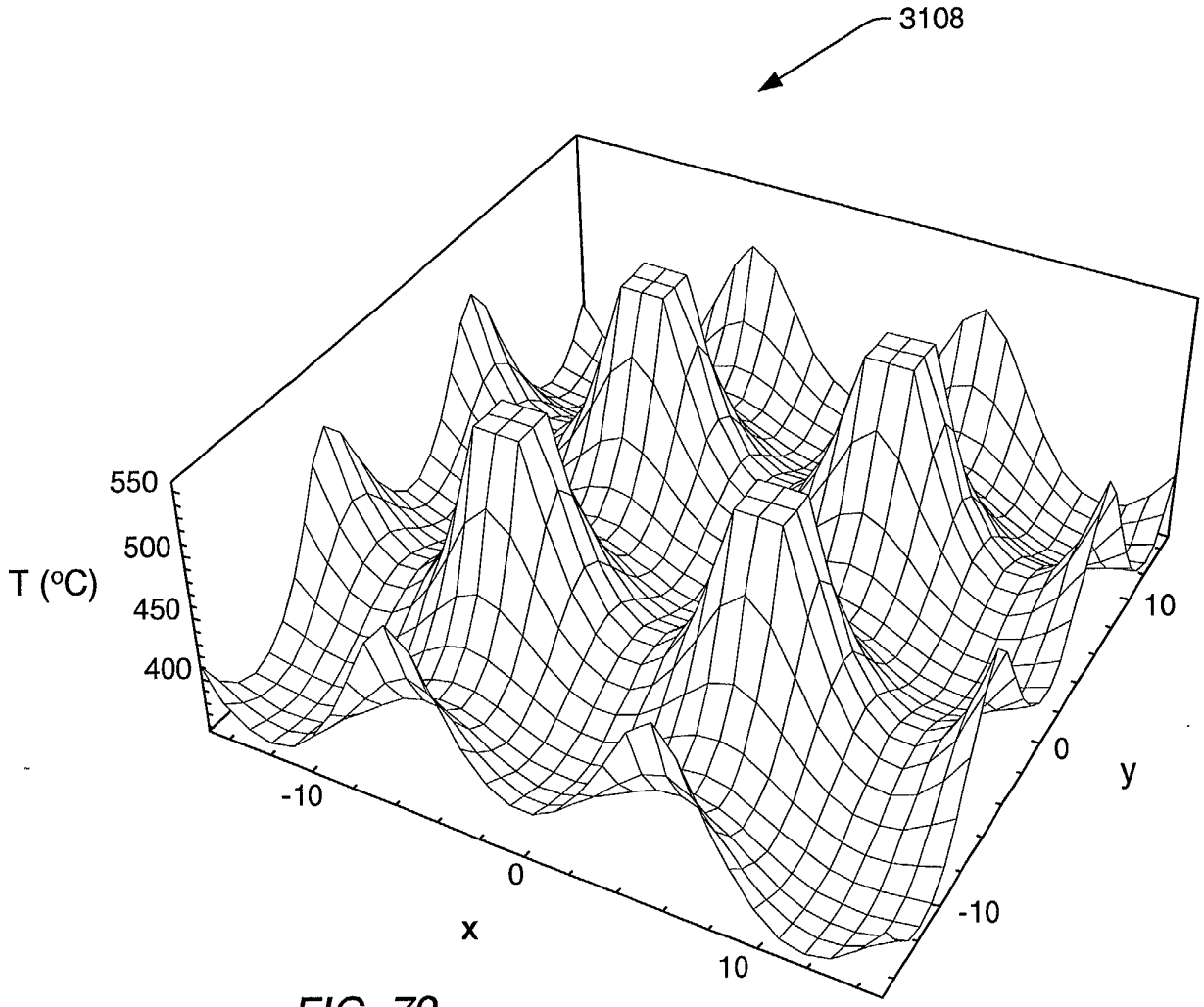


FIG. 79

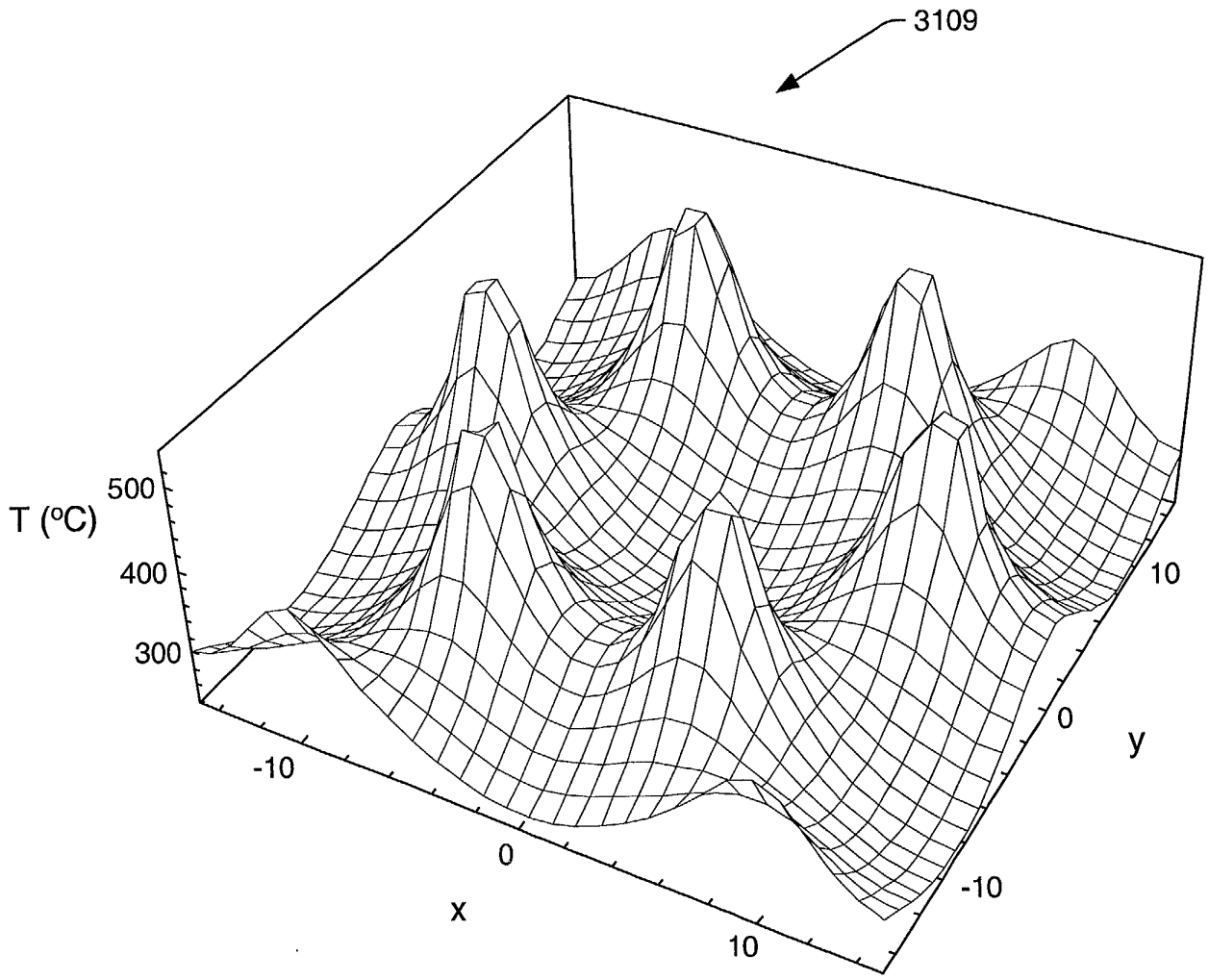


FIG. 79a

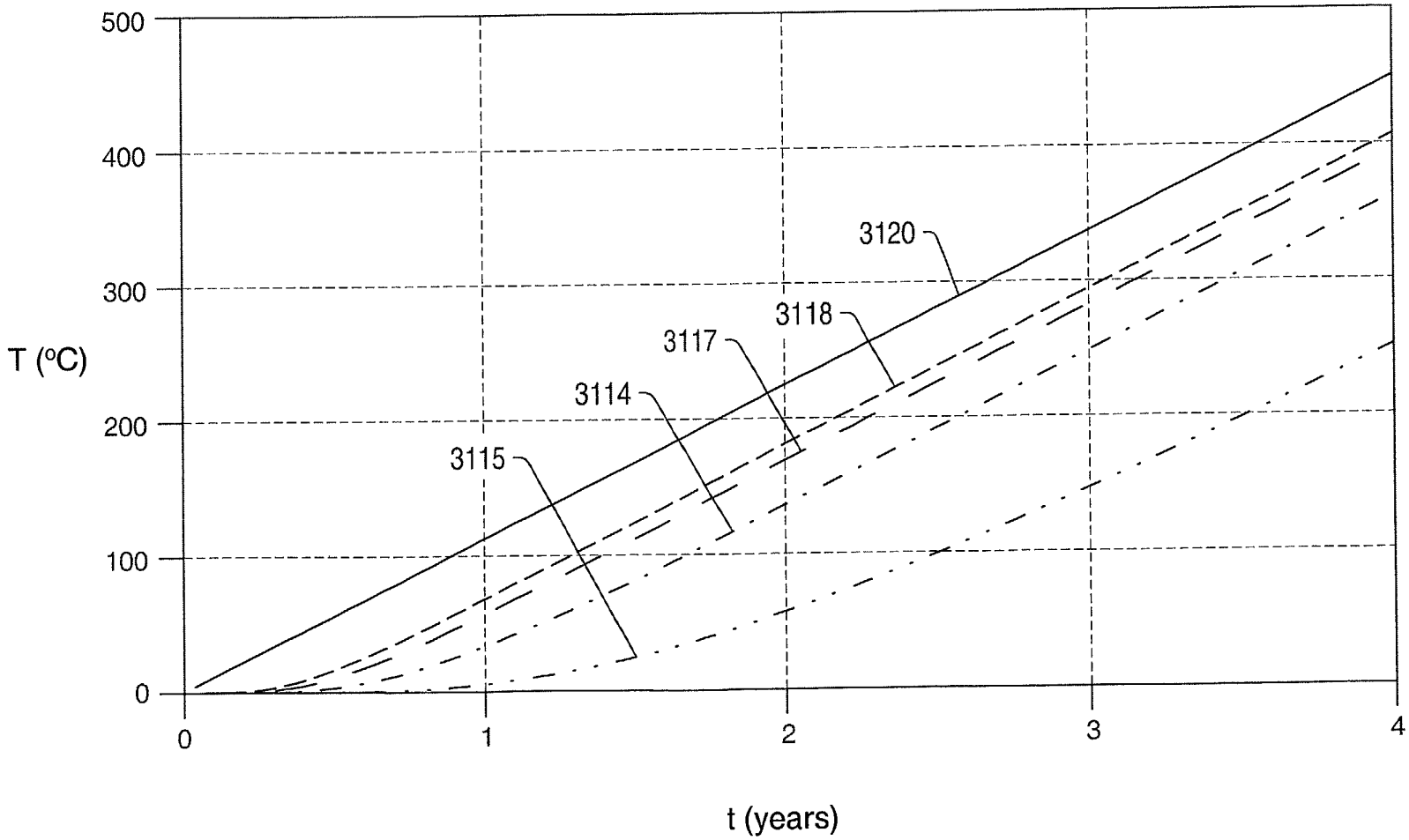


FIG. 80

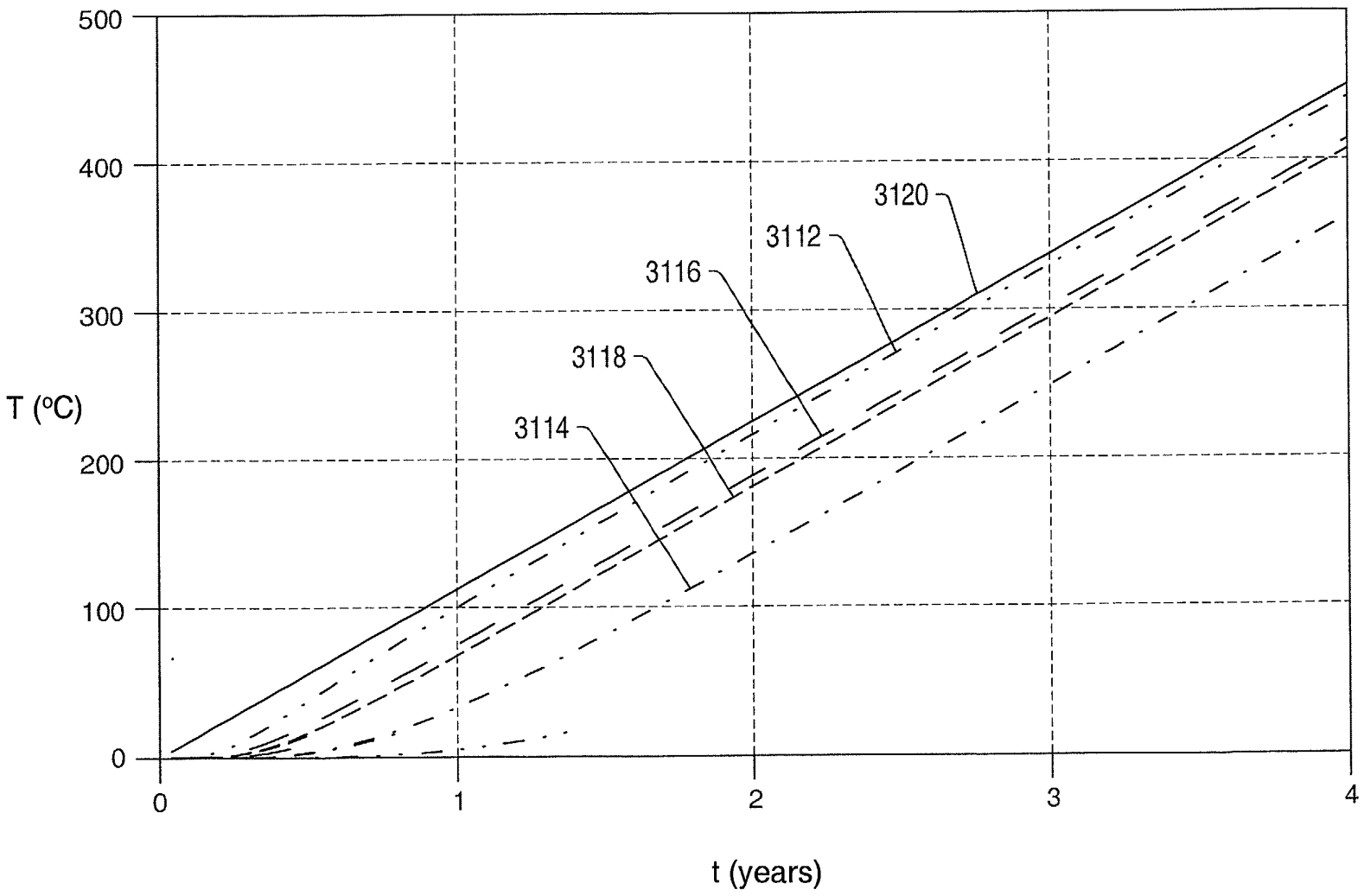


FIG. 81

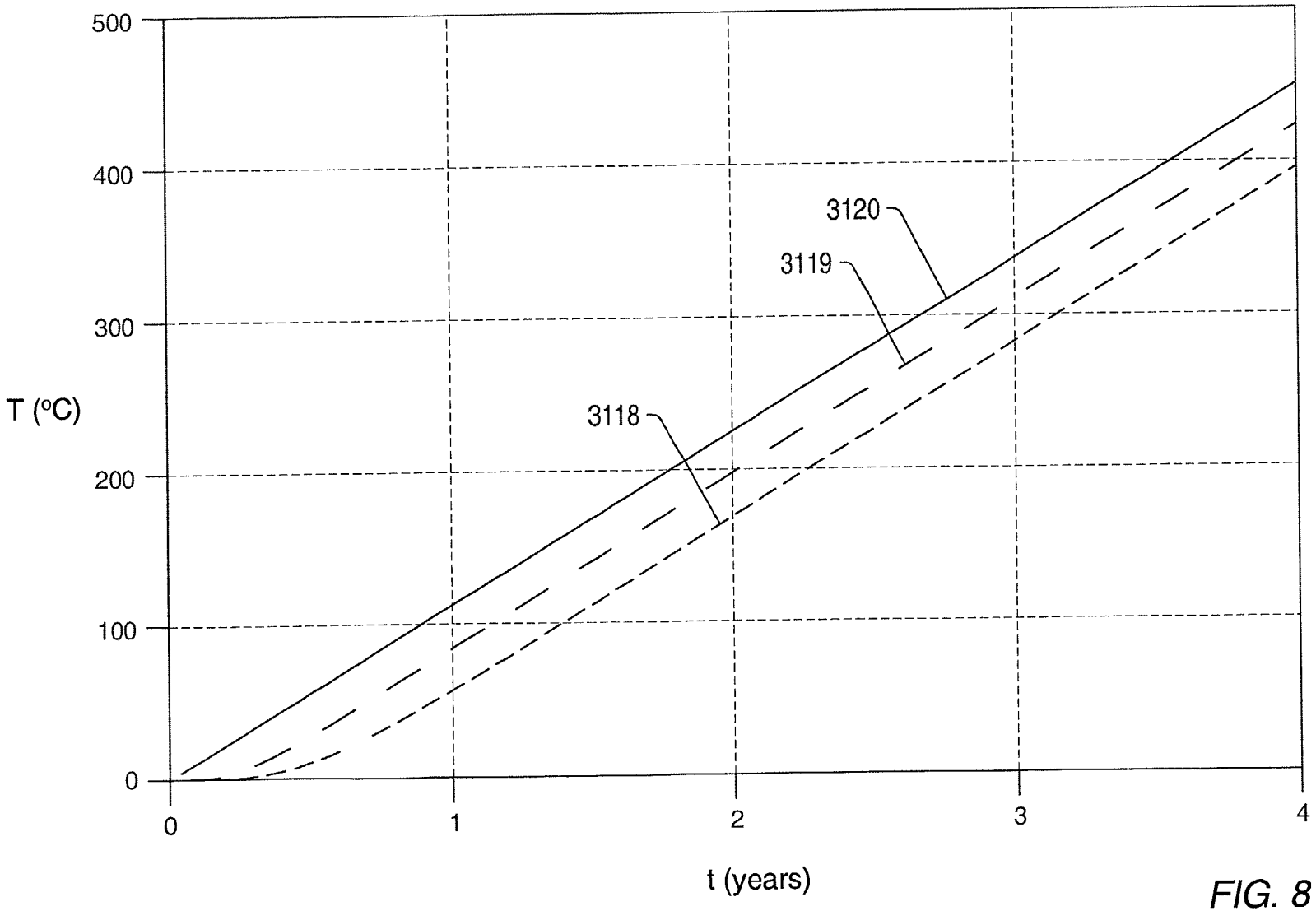


FIG. 81a

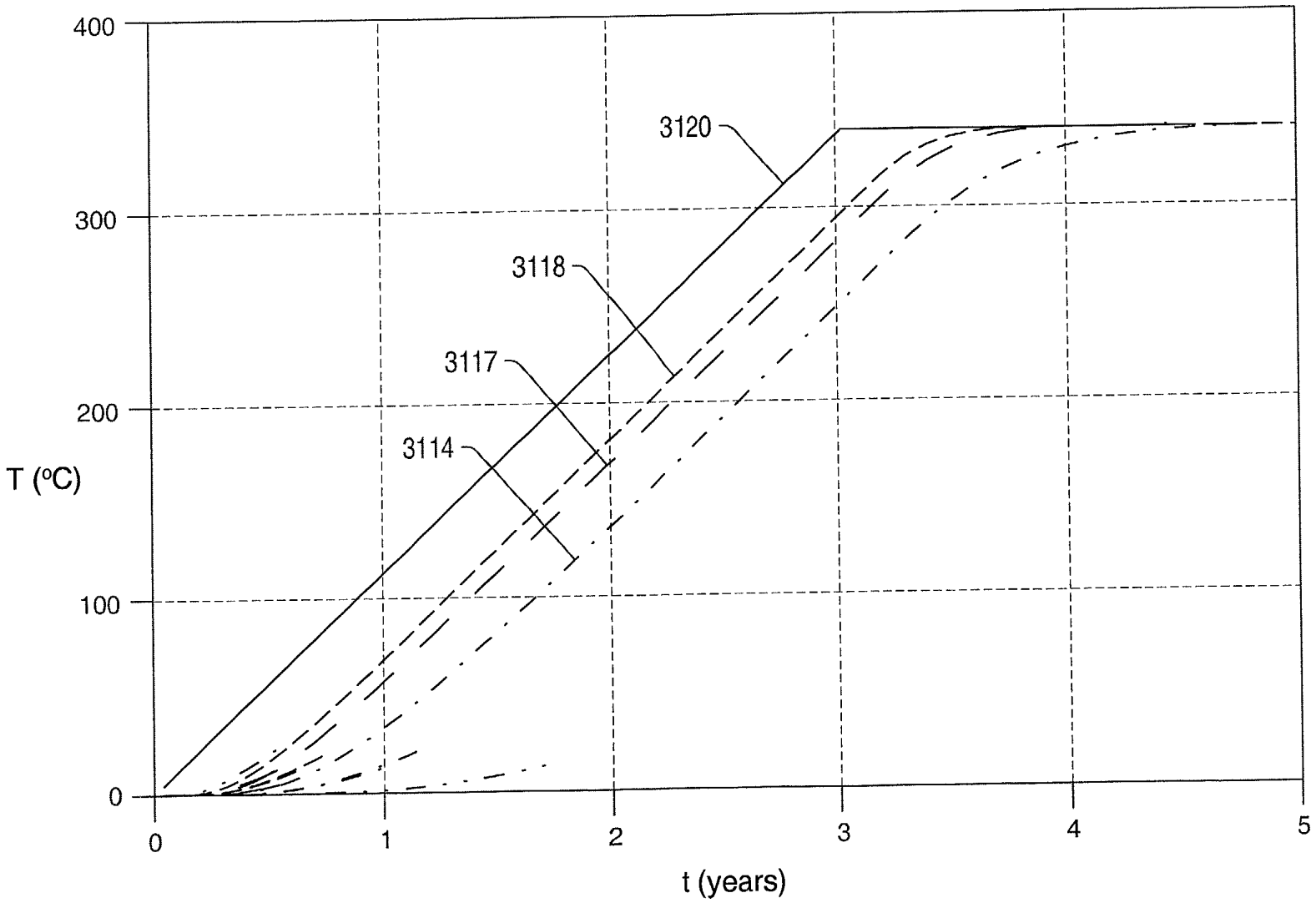


FIG. 81b

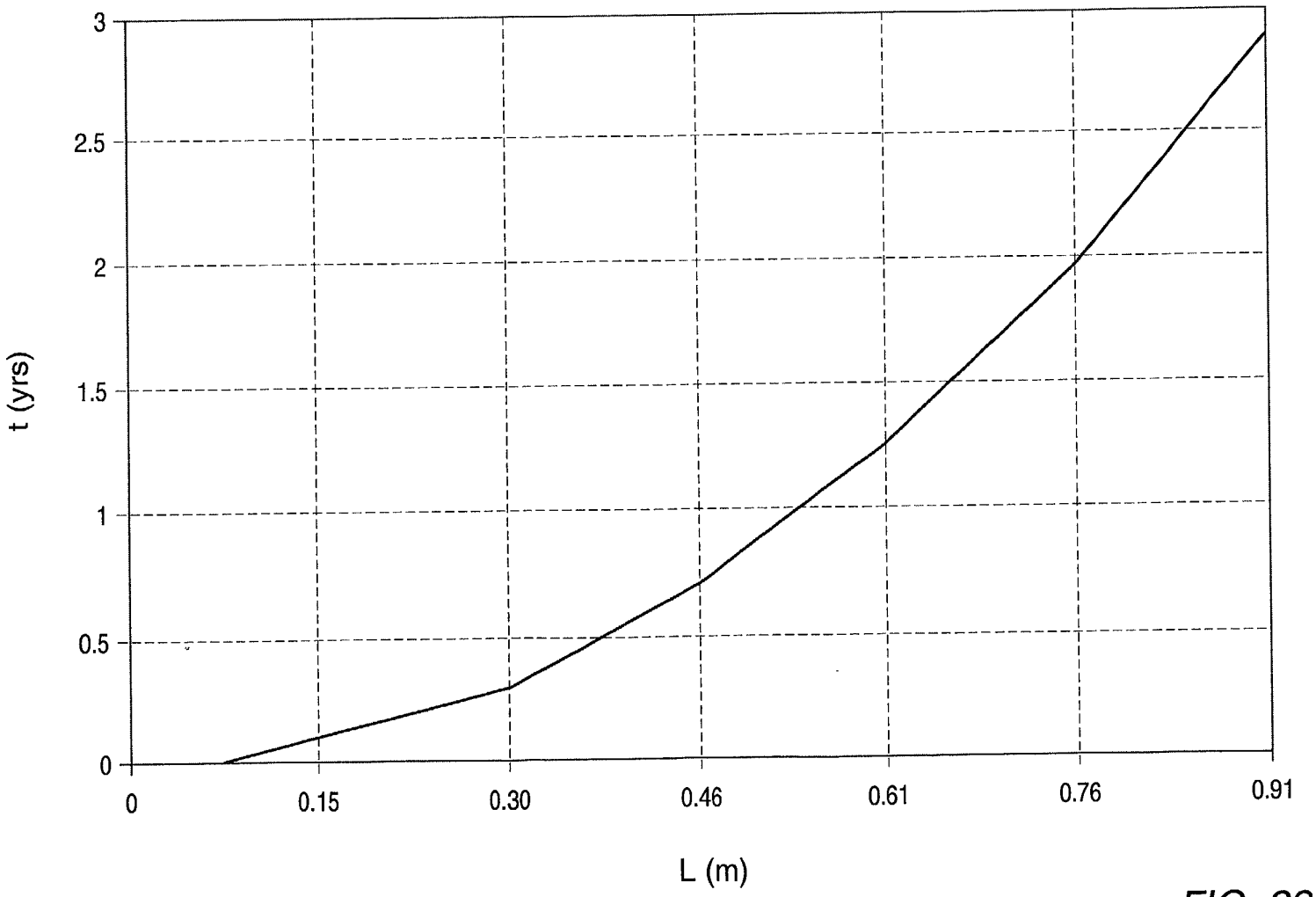


FIG. 82

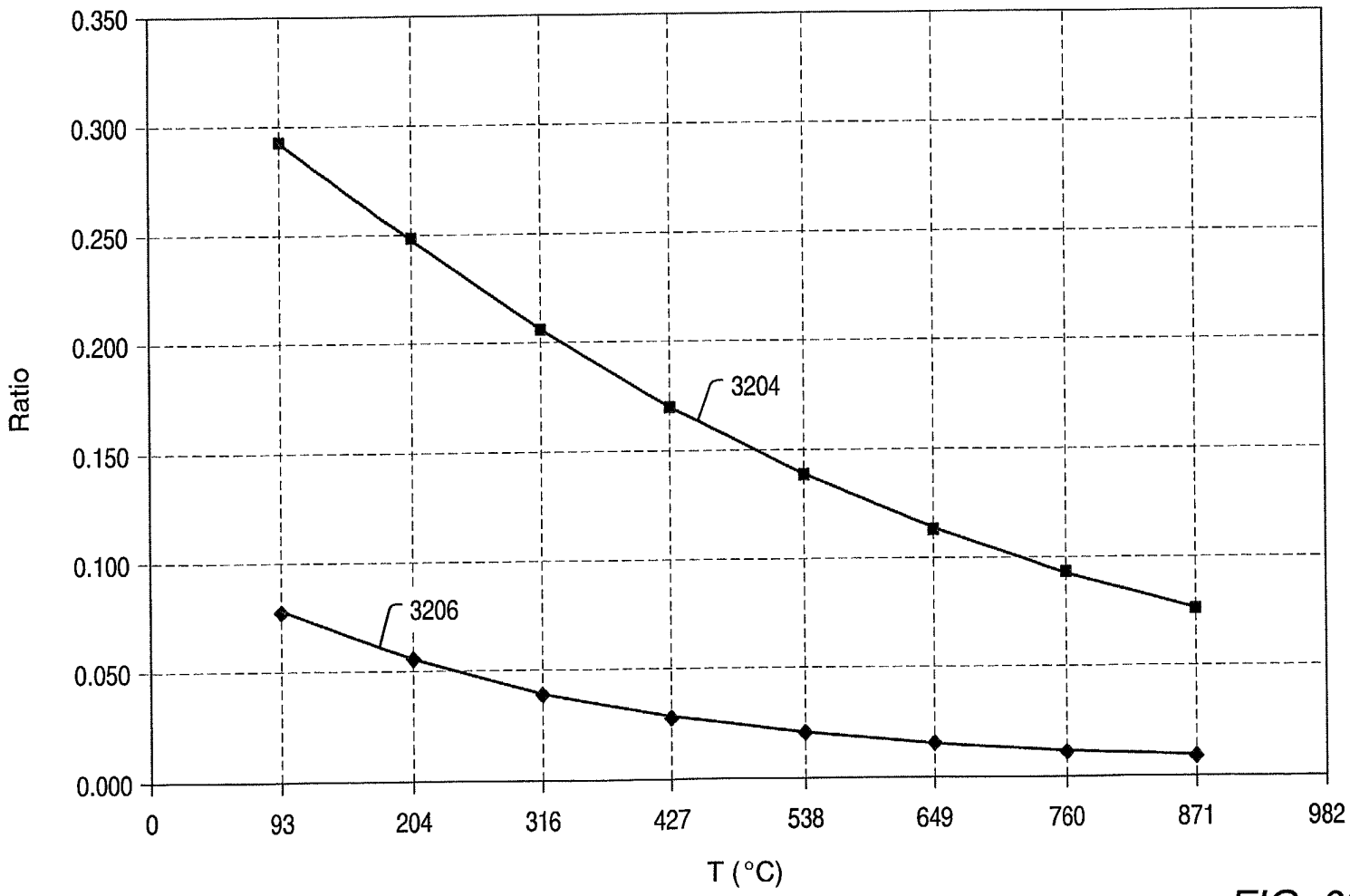

0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
Ratio
3204
3206
0
93
204
316
427
538
649
760
871
982
T (°C)

FIG. 83

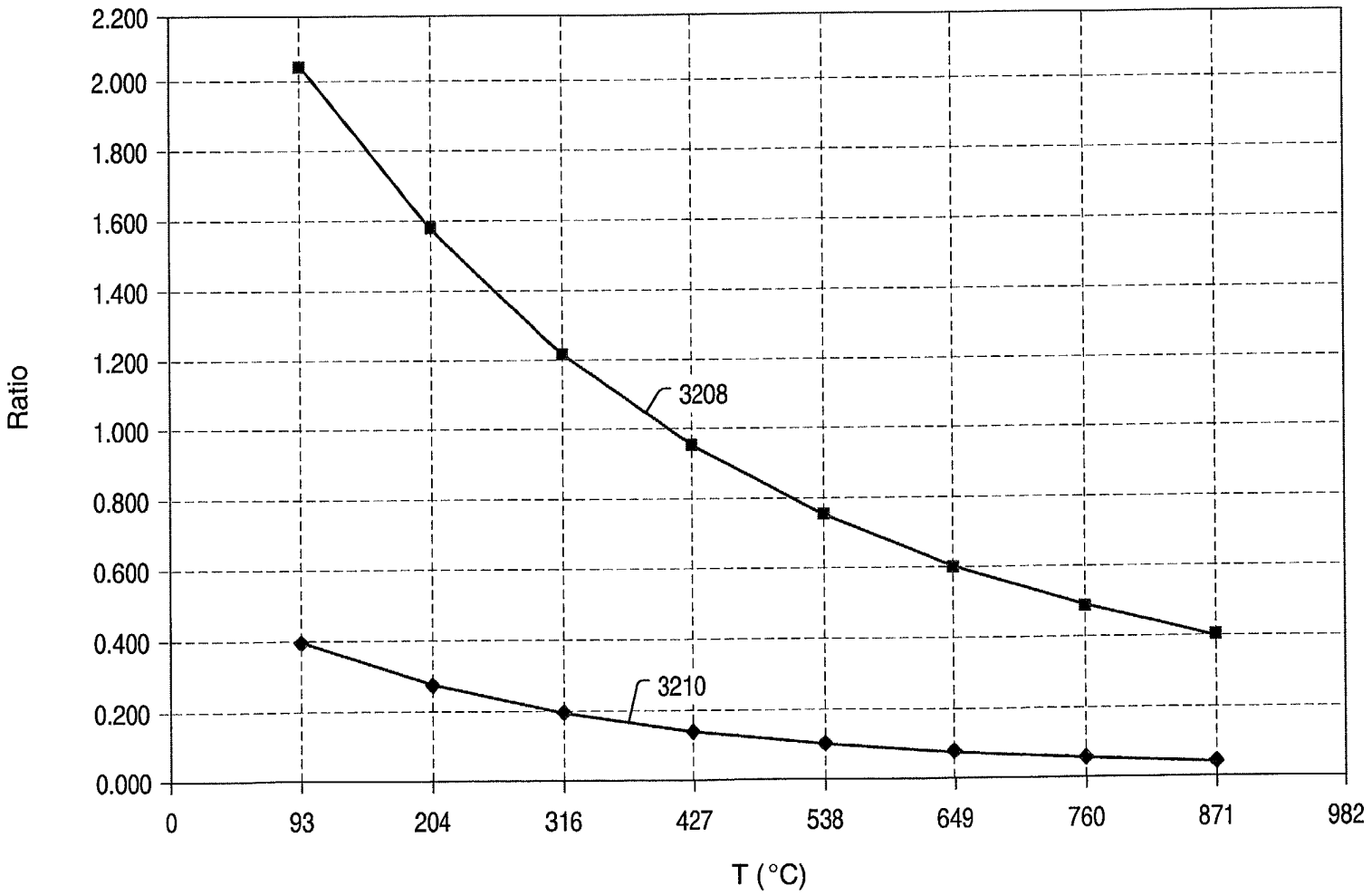

2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
Ratio
3208
3210
0
93
204
316
427
538
649
760
871
982
T (°C)

FIG. 84

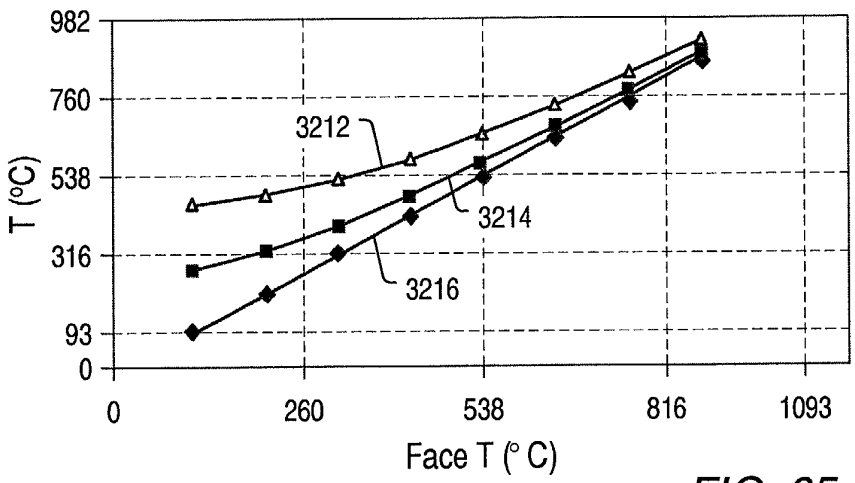


FIG. 85

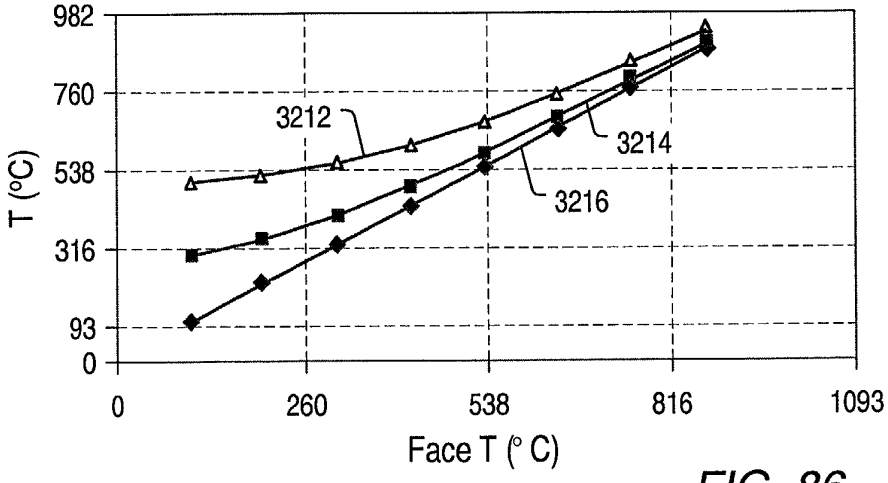


FIG. 86

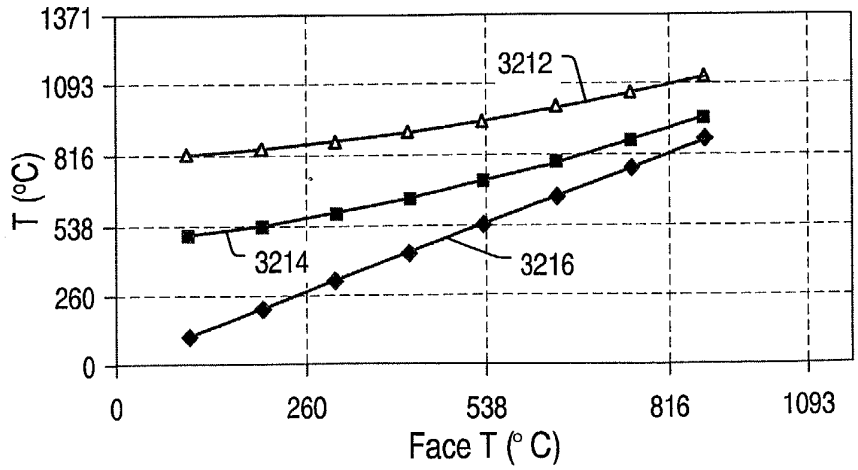


FIG. 87

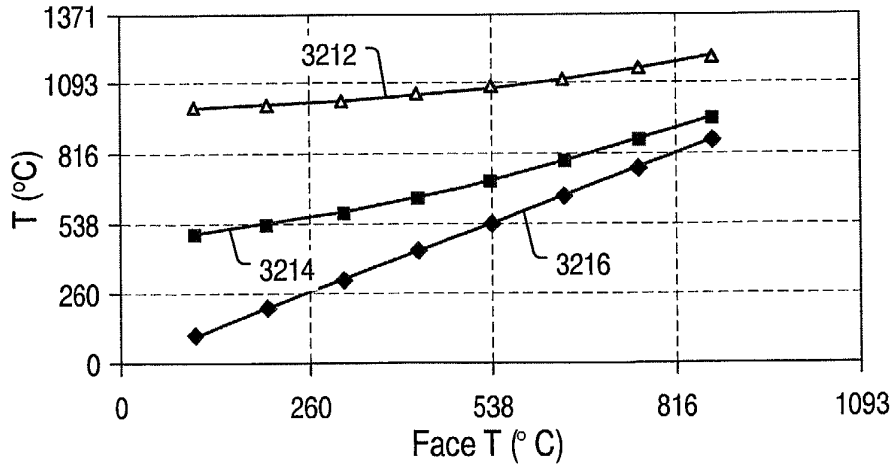
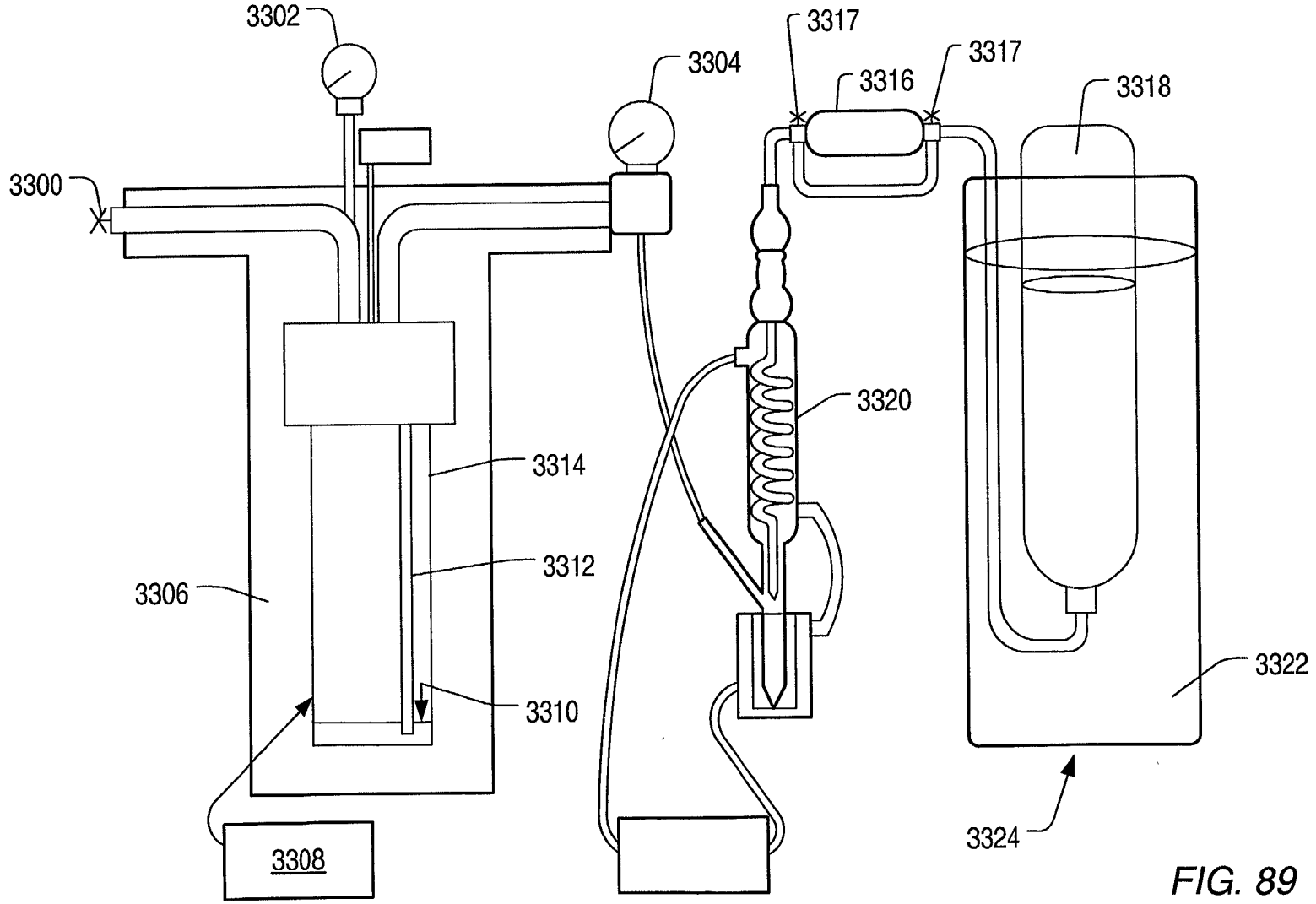


FIG. 88


3302
3304
3317
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3317
3318
3300
3320
3314
3312
3306
3310
3322
3308
3324

FIG. 89

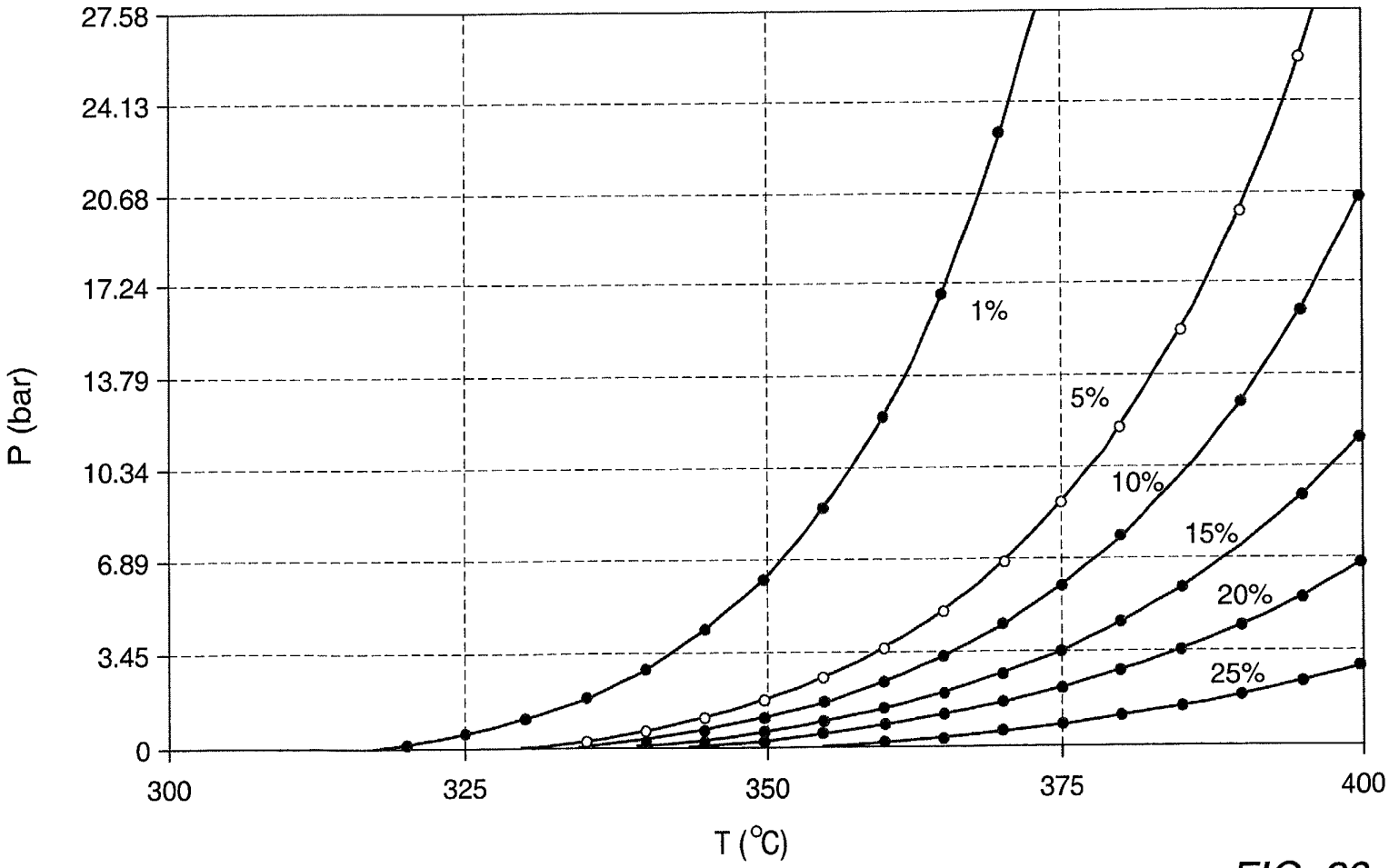

27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
P (bar)
300
325
350
375
400
T (°C)
1%
5%
10%
15%
20%
25%

FIG. 90

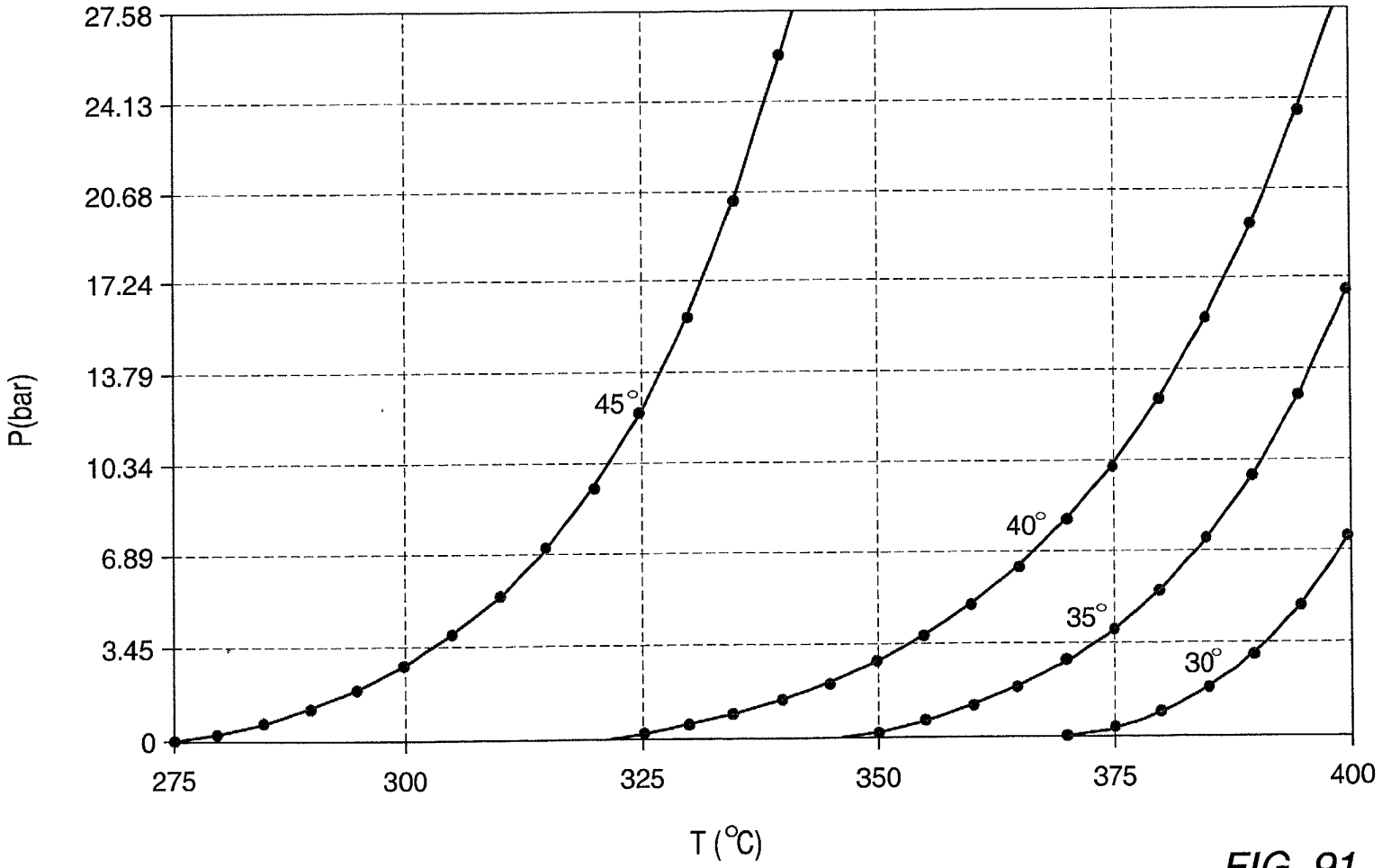
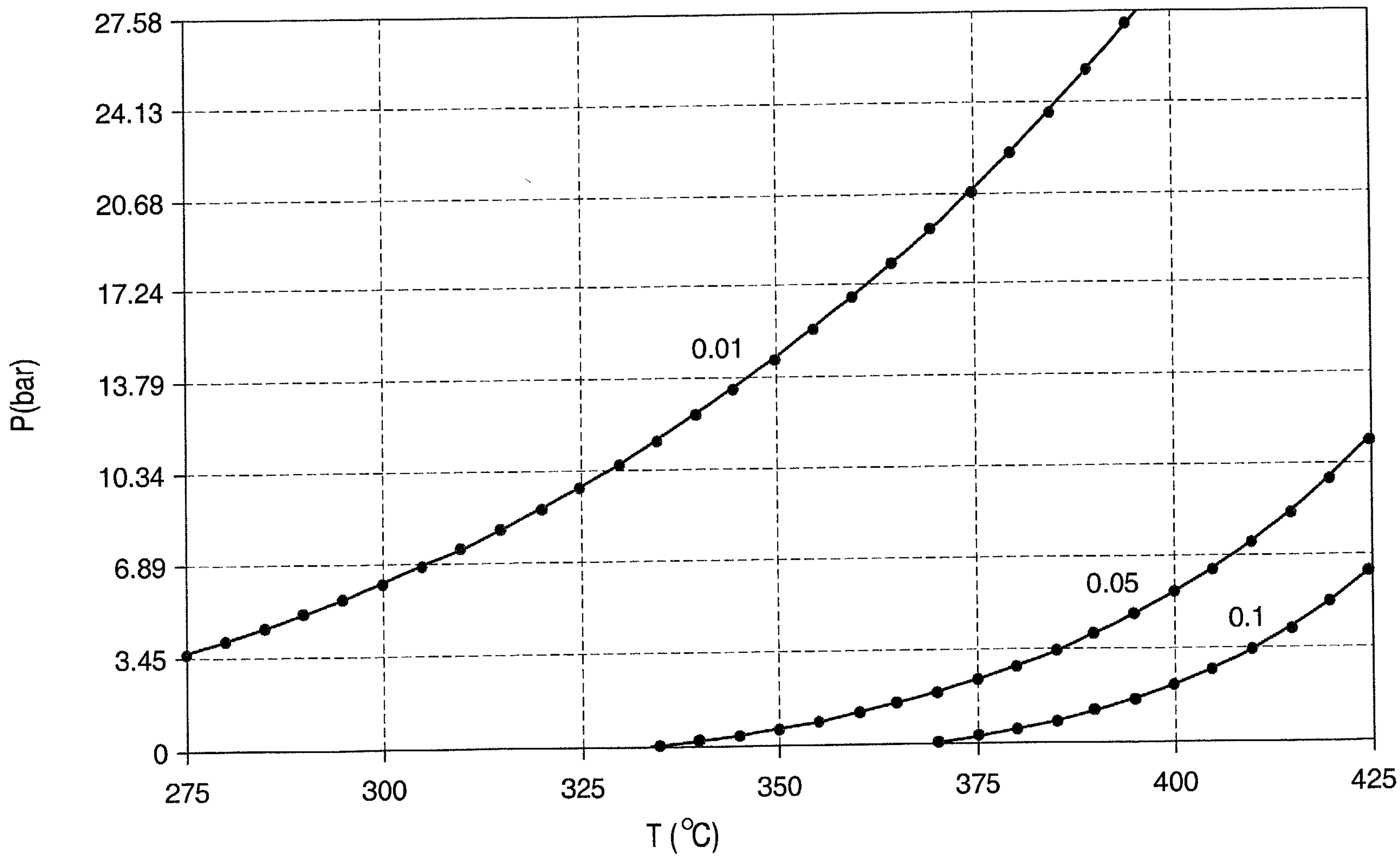

27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
P(bar)
275
300
325
350
375
400
T (°C)
45°
40°
35°
30°

FIG. 91



P(bar)
27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
275
300
325
350
375
400
425
T (°C)
0.01
0.05
0.1

FIG. 92

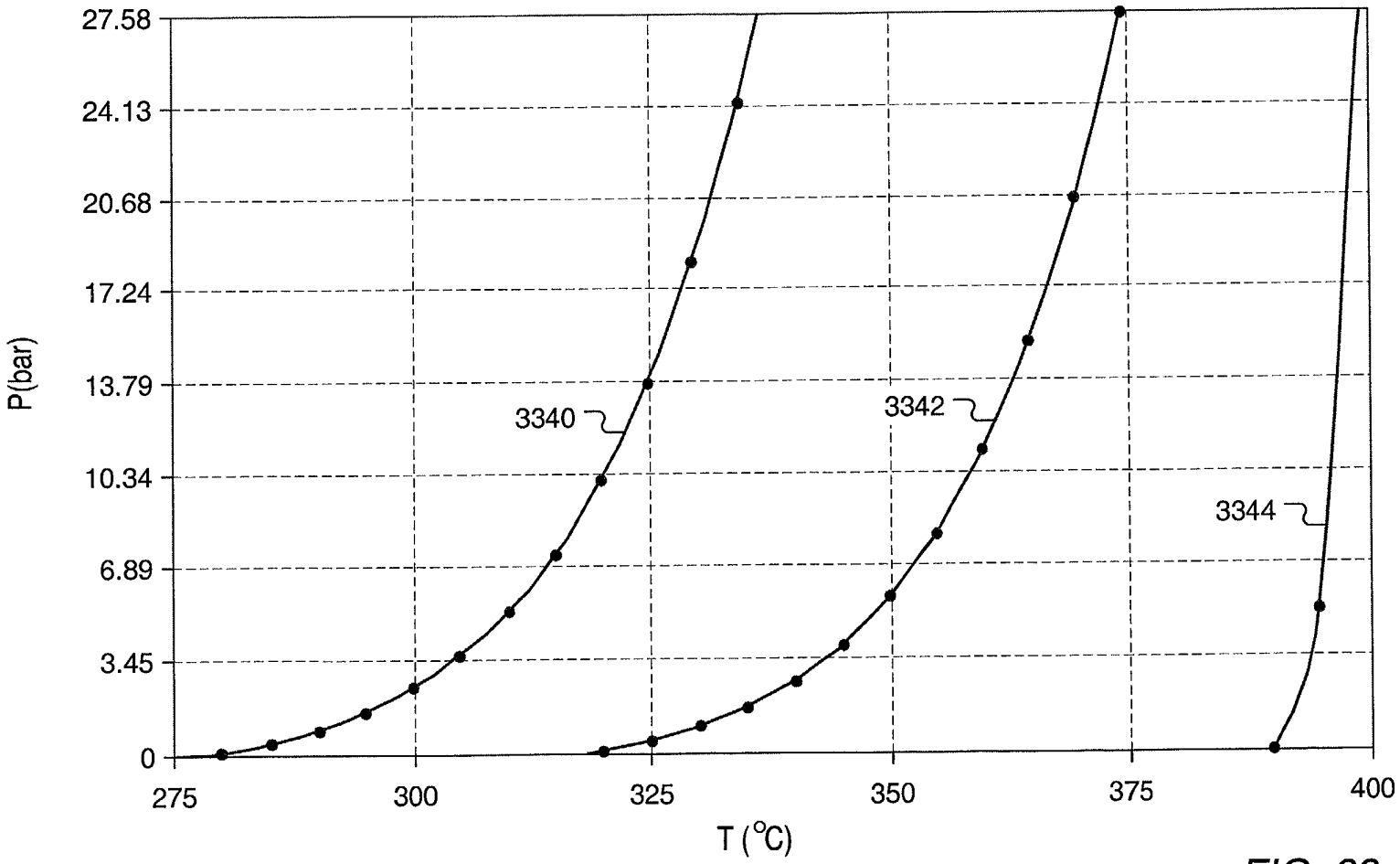

27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
P(bar)
275
300
325
350
375
400
T (°C)
3340
3342
3344

FIG. 93

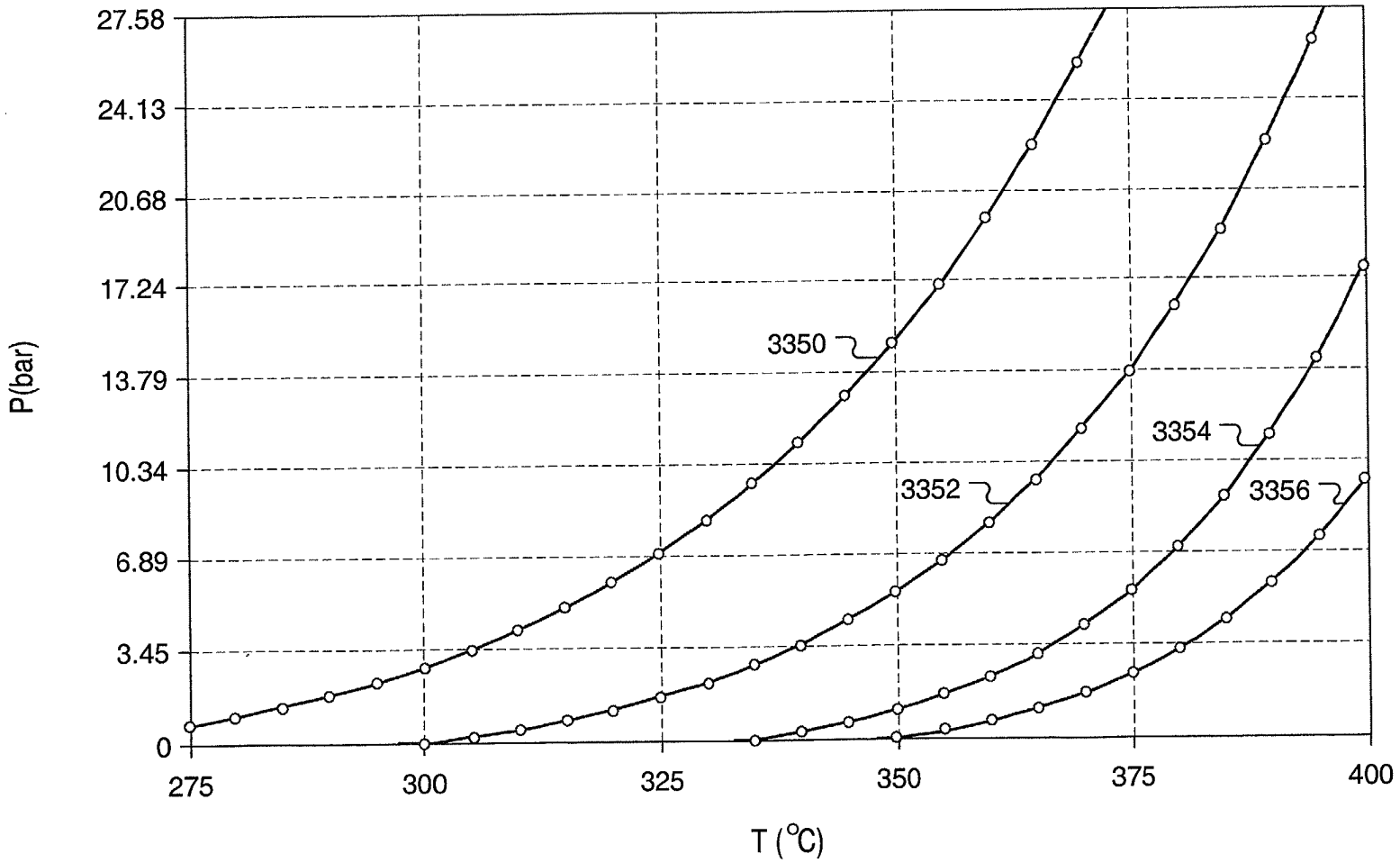

27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
P(bar)
275
300
325
350
375
400
T (°C)
3350
3352
3354
3356

FIG. 94

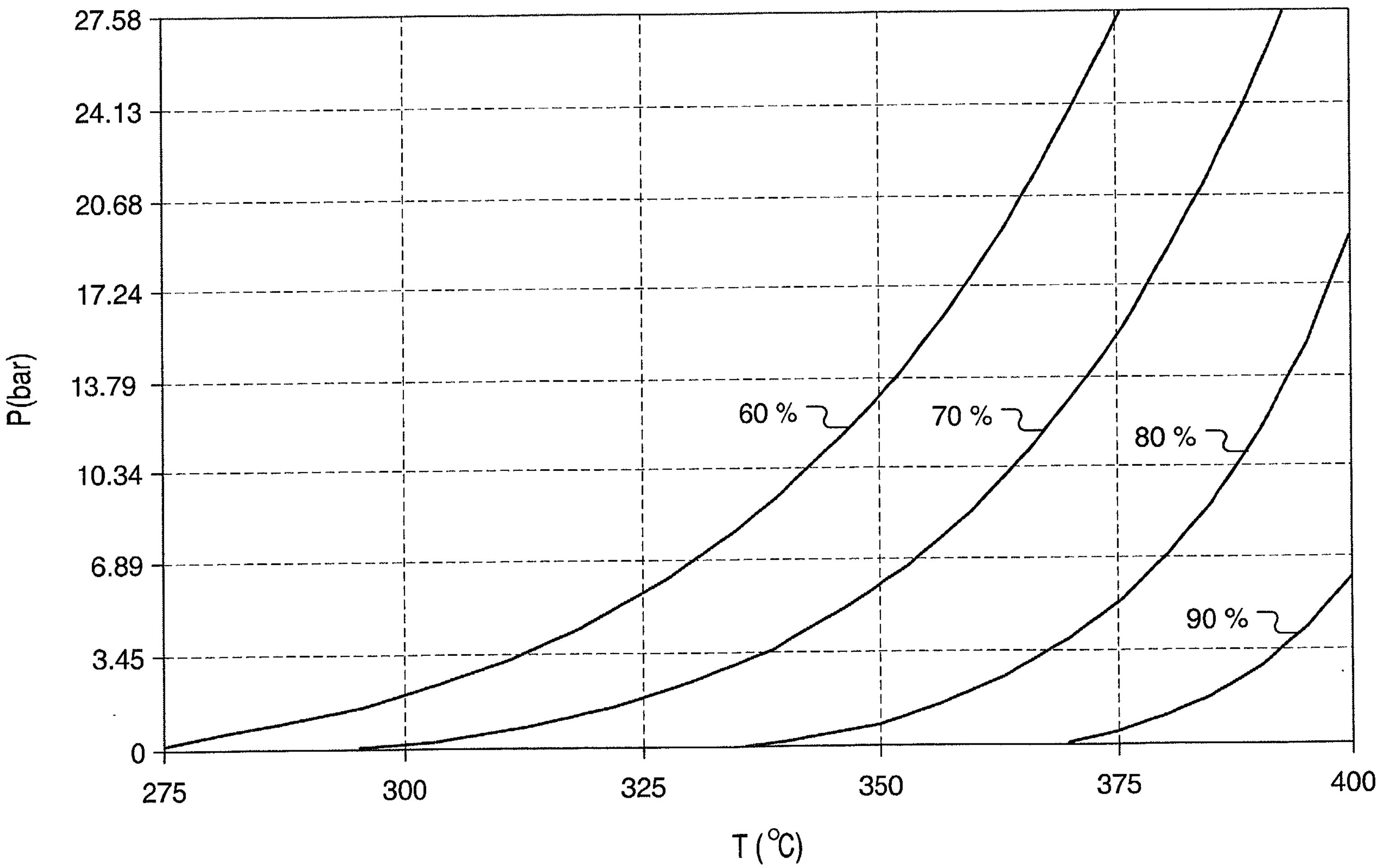

27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
P(bar)
275
300
325
350
375
400
T (°C)
60 %
70 %
80 %
90 %

FIG. 95

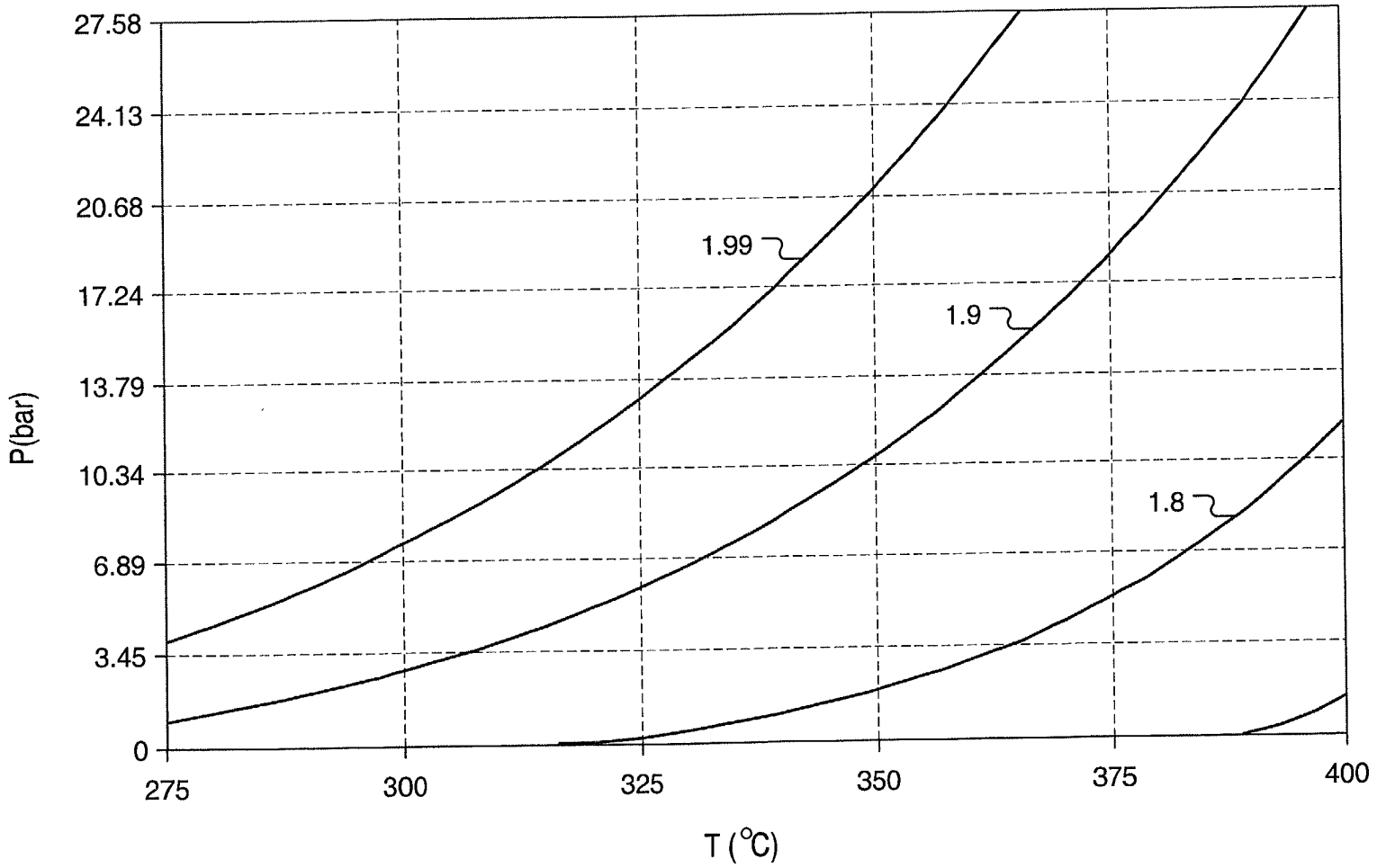

27.58
24.13
20.68
17.24
13.79
10.34
6.89
3.45
0
P(bar)
1.99
1.9
1.8
275
300
325
350
375
400
T (°C)

FIG. 96

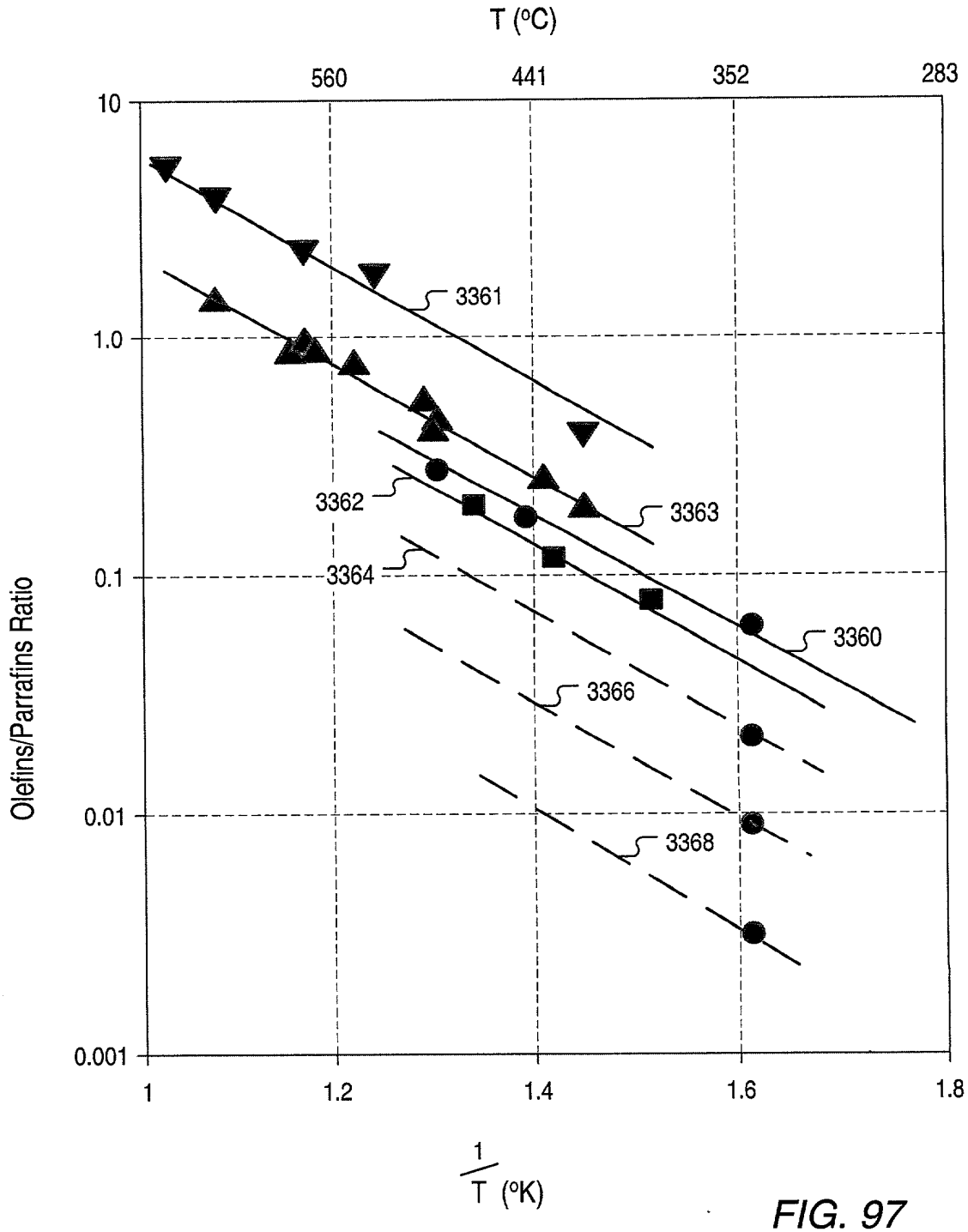

T (°C)
560
441
352
283
10
1.0
0.1
0.01
0.001
Olefins/Parrafins Ratio
3361
3362
3363
3364
3360
3366
3368
1
1.2
1.4
1.6
1.8
1/T (°K)

FIG. 97

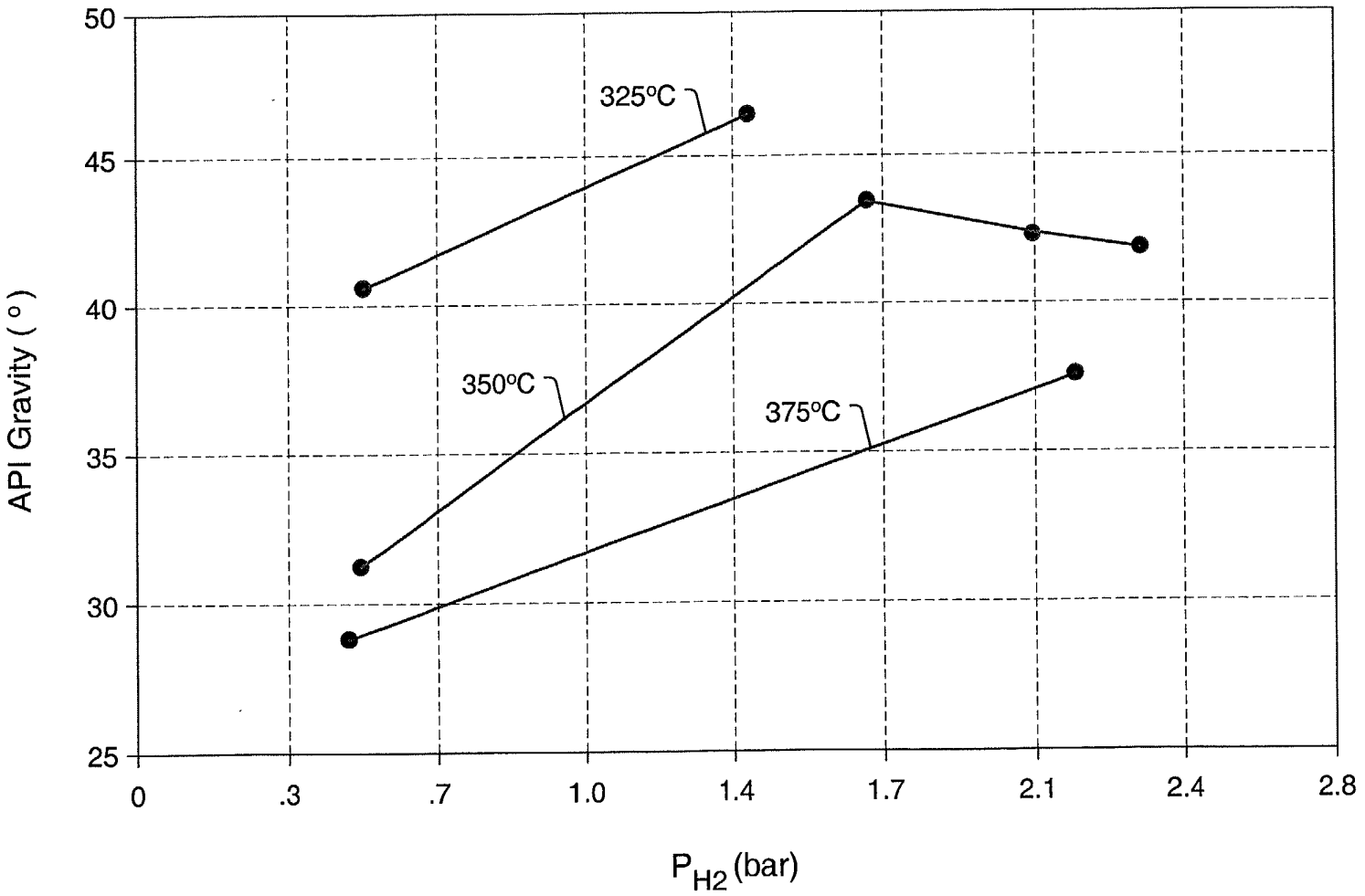

50
45
40
35
30
25
API Gravity (°)
325°C
350°C
375°C
0
.3
.7
1.0
1.4
1.7
2.1
2.4
2.8
P_{H2} (bar)

FIG. 98

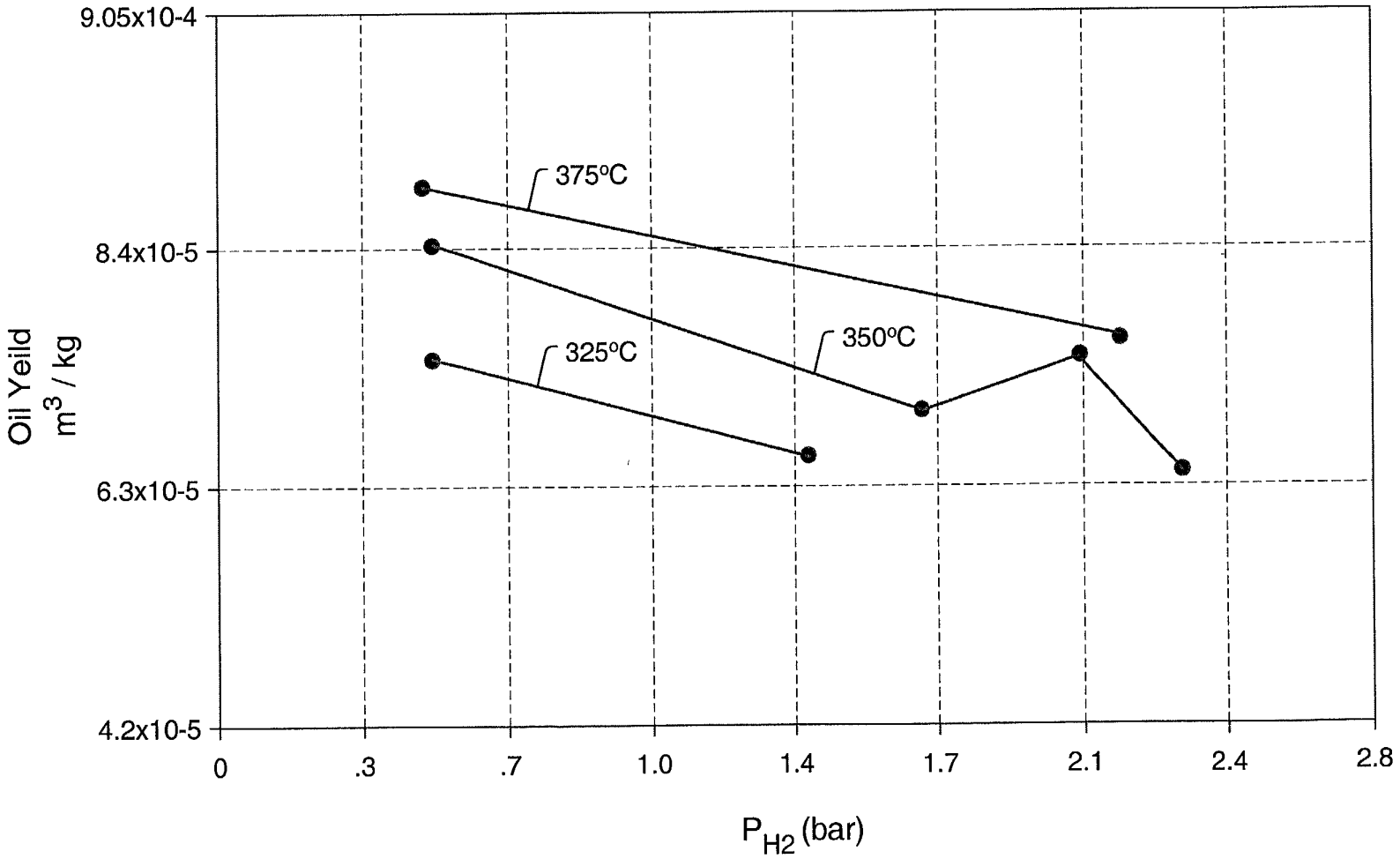


FIG. 99

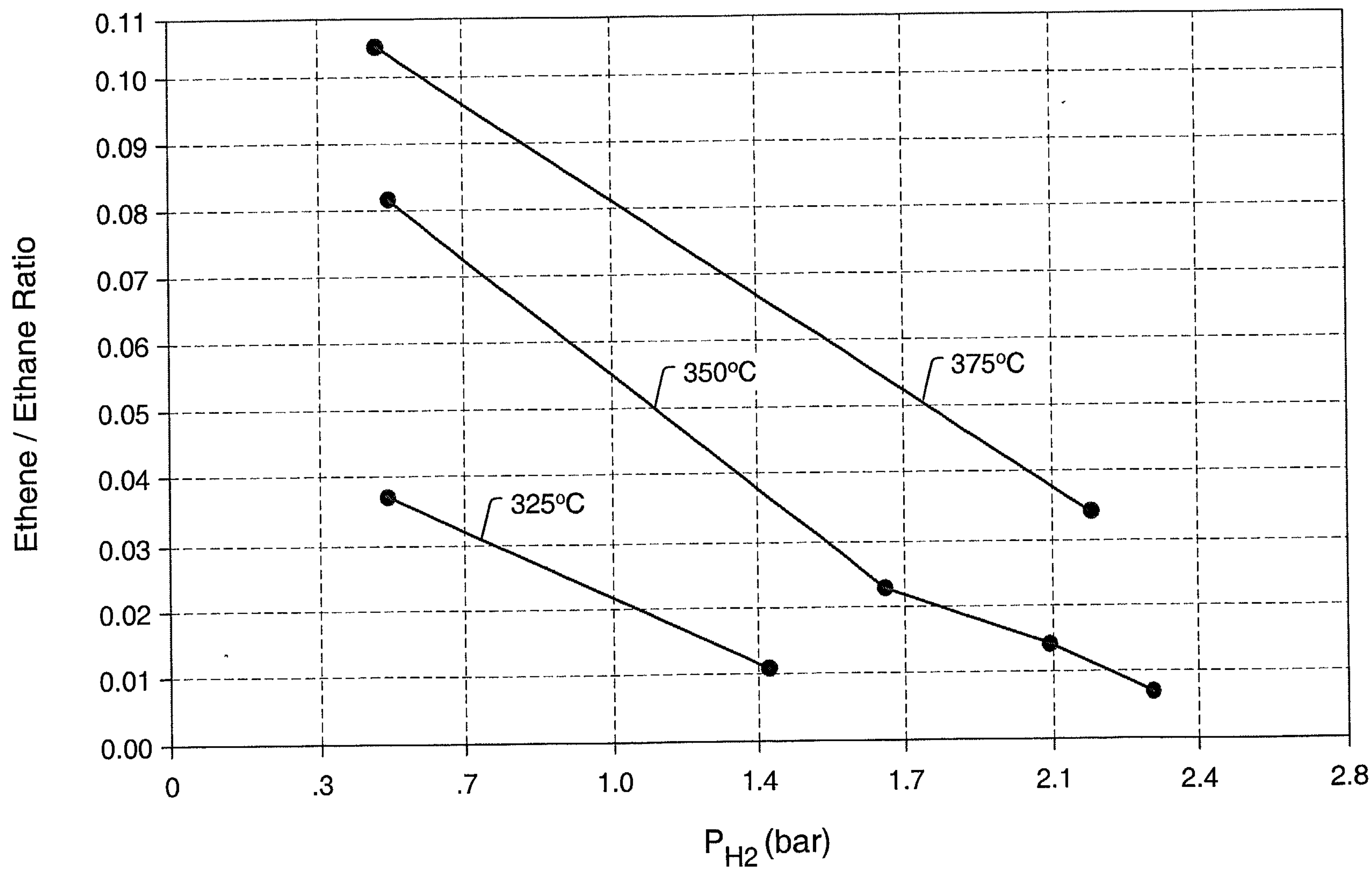

0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Ethene / Ethane Ratio
0
.3
.7
1.0
1.4
1.7
2.1
2.4
2.8
P_{H2} (bar)
375°C
350°C
325°C

FIG. 100

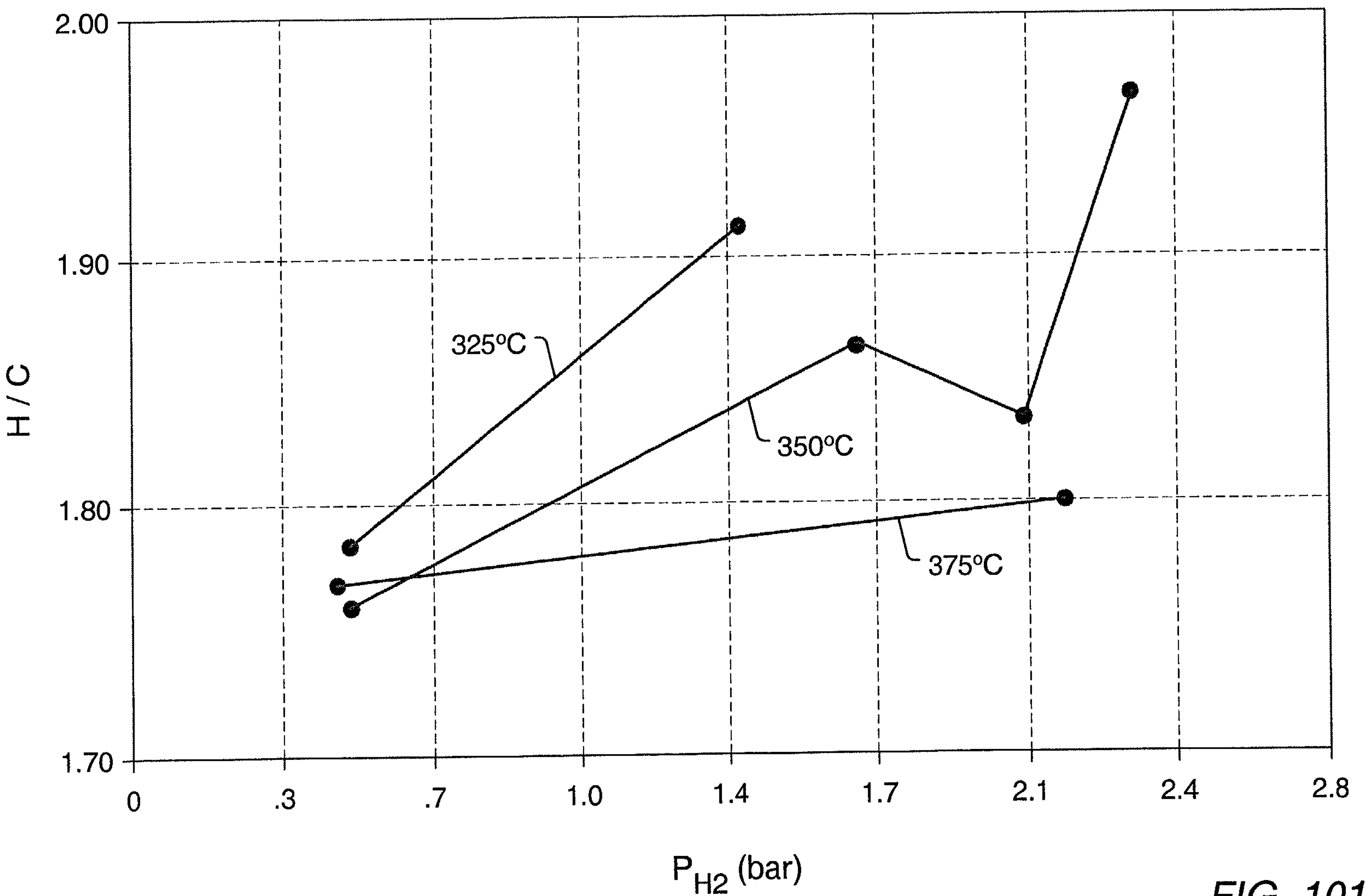


FIG. 101

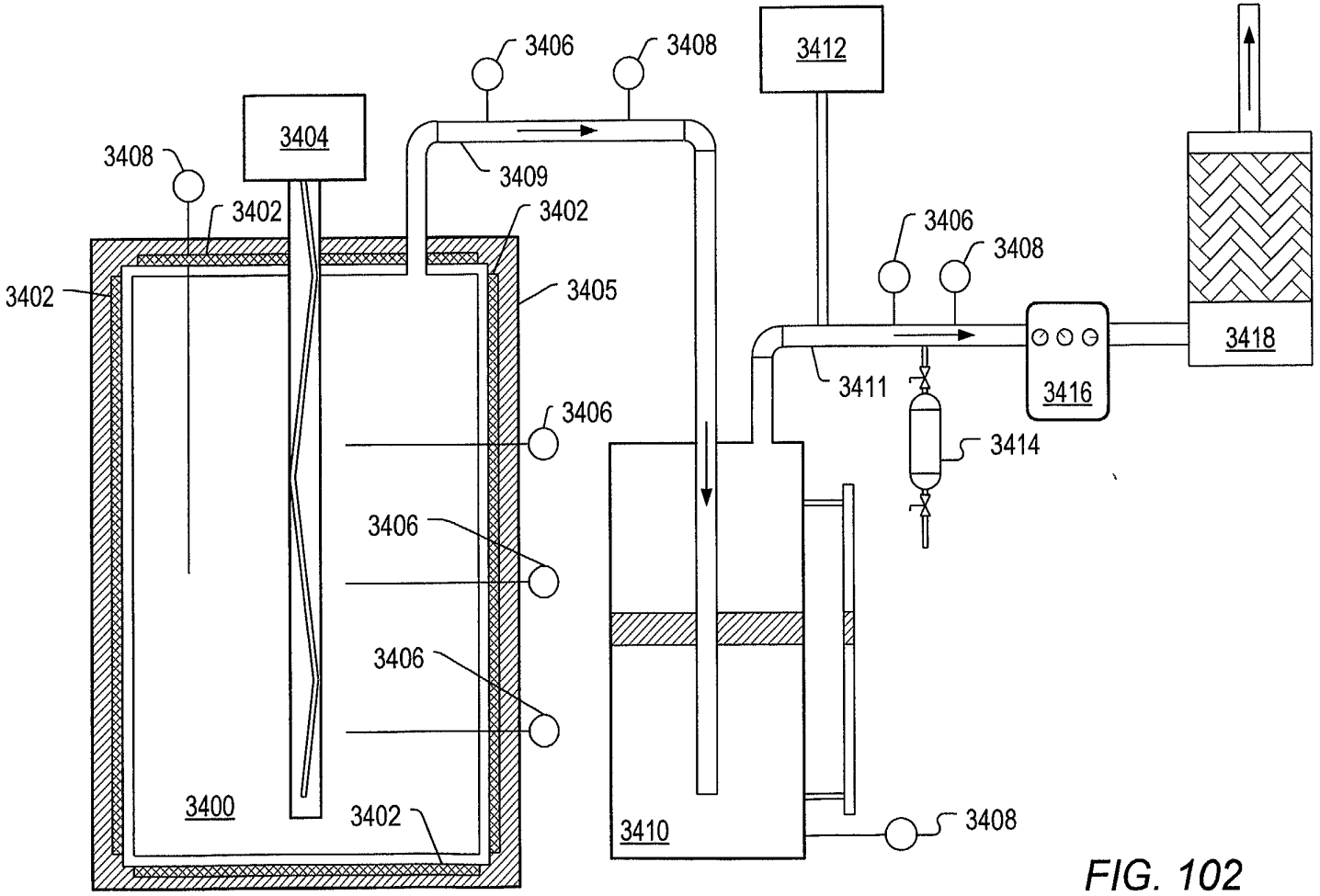


FIG. 102

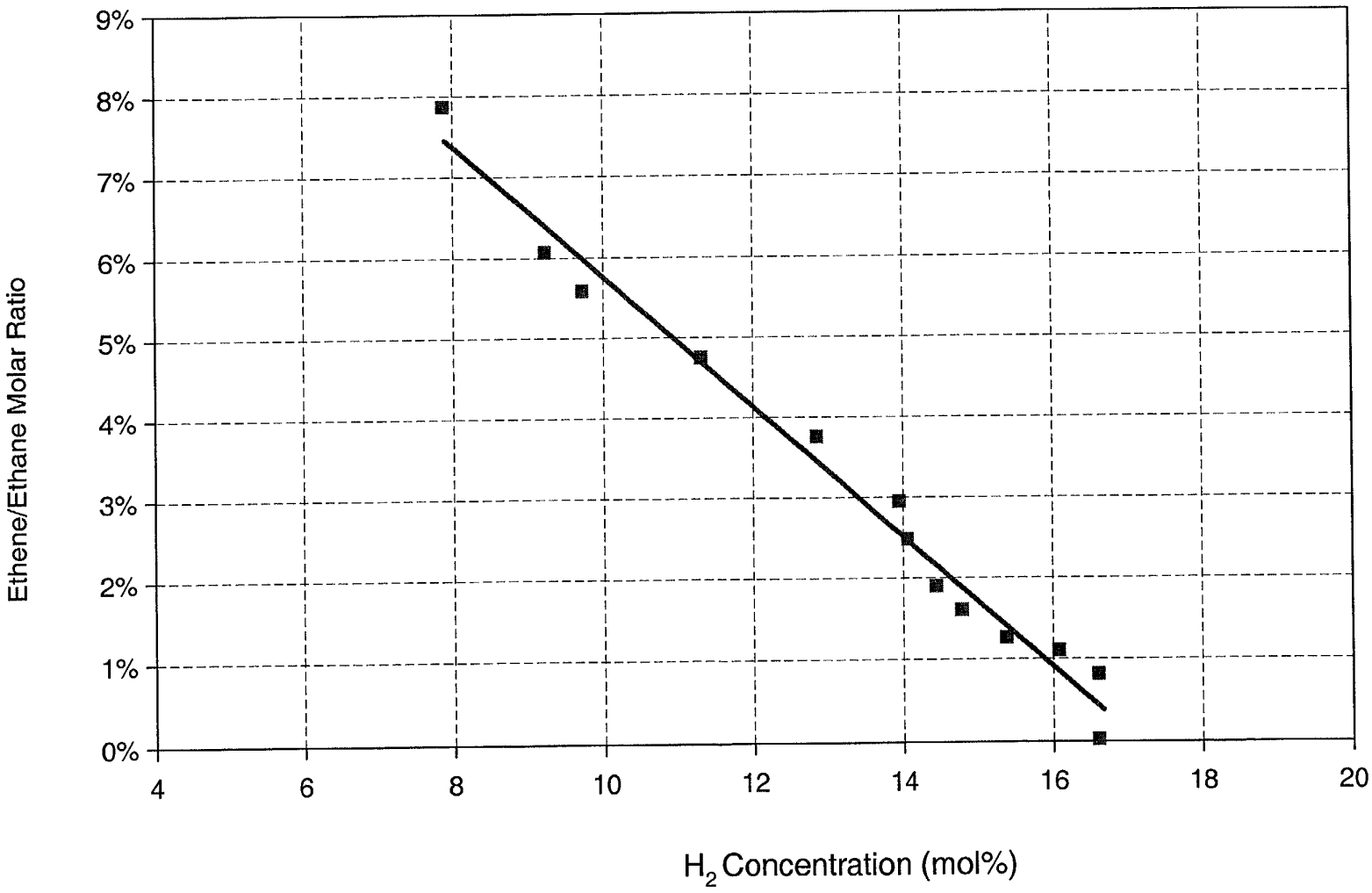
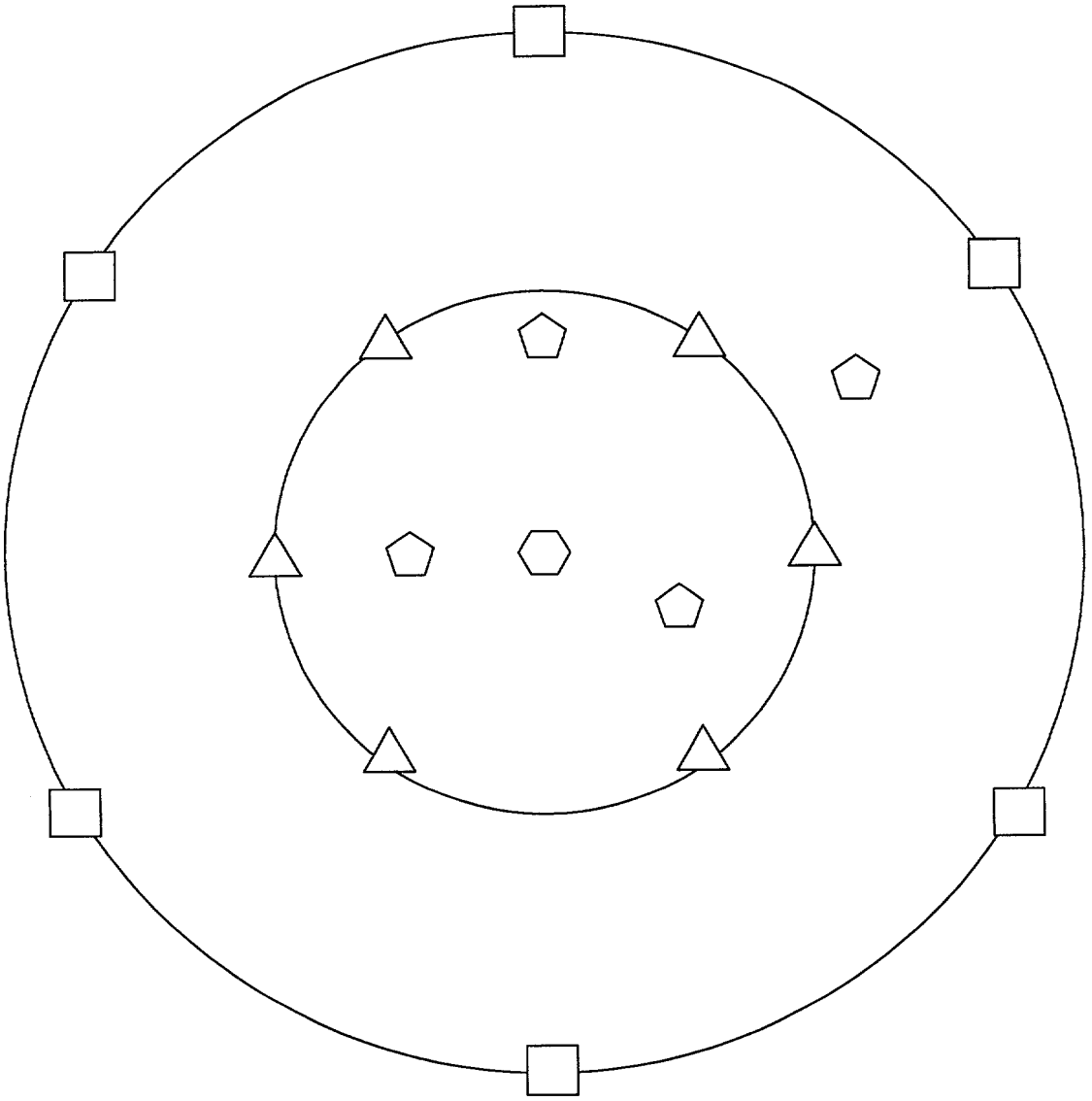

9%
8%
7%
6%
5%
4%
3%
2%
1%
0%
Ethene/Ethane Molar Ratio
4
6
8
10
12
14
16
18
20
H2 Concentration (mol%)

FIG. 103



△ - 3600

⬠ - 3603

□ - 3604

⬡ - 3602

FIG. 104

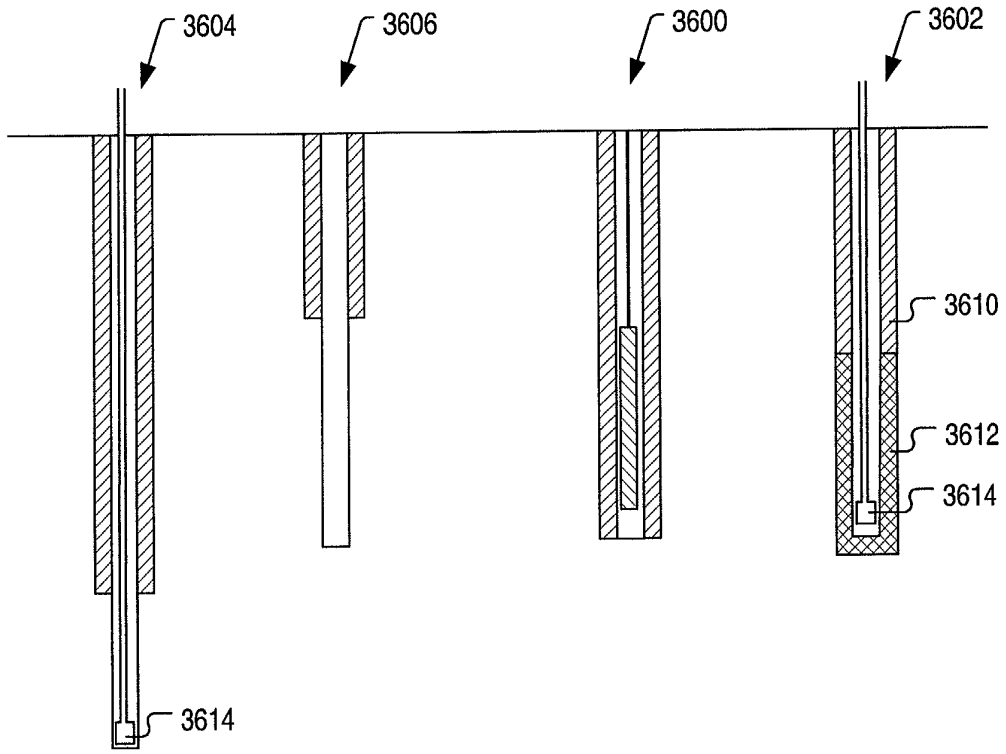


FIG. 105

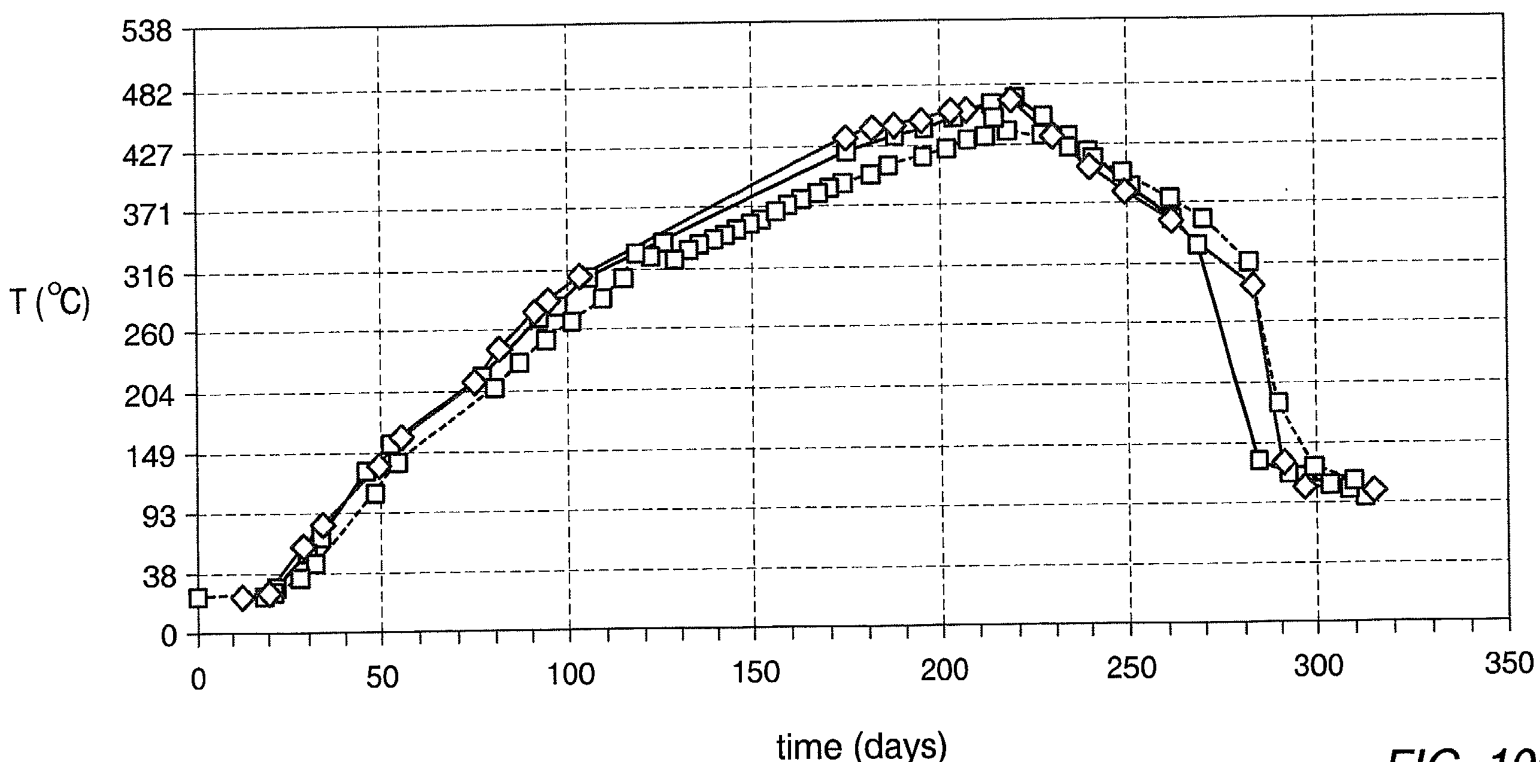

538
482
427
371
316
260
204
149
93
38
0
T (°C)
0
50
100
150
200
250
300
350
time (days)

FIG. 106

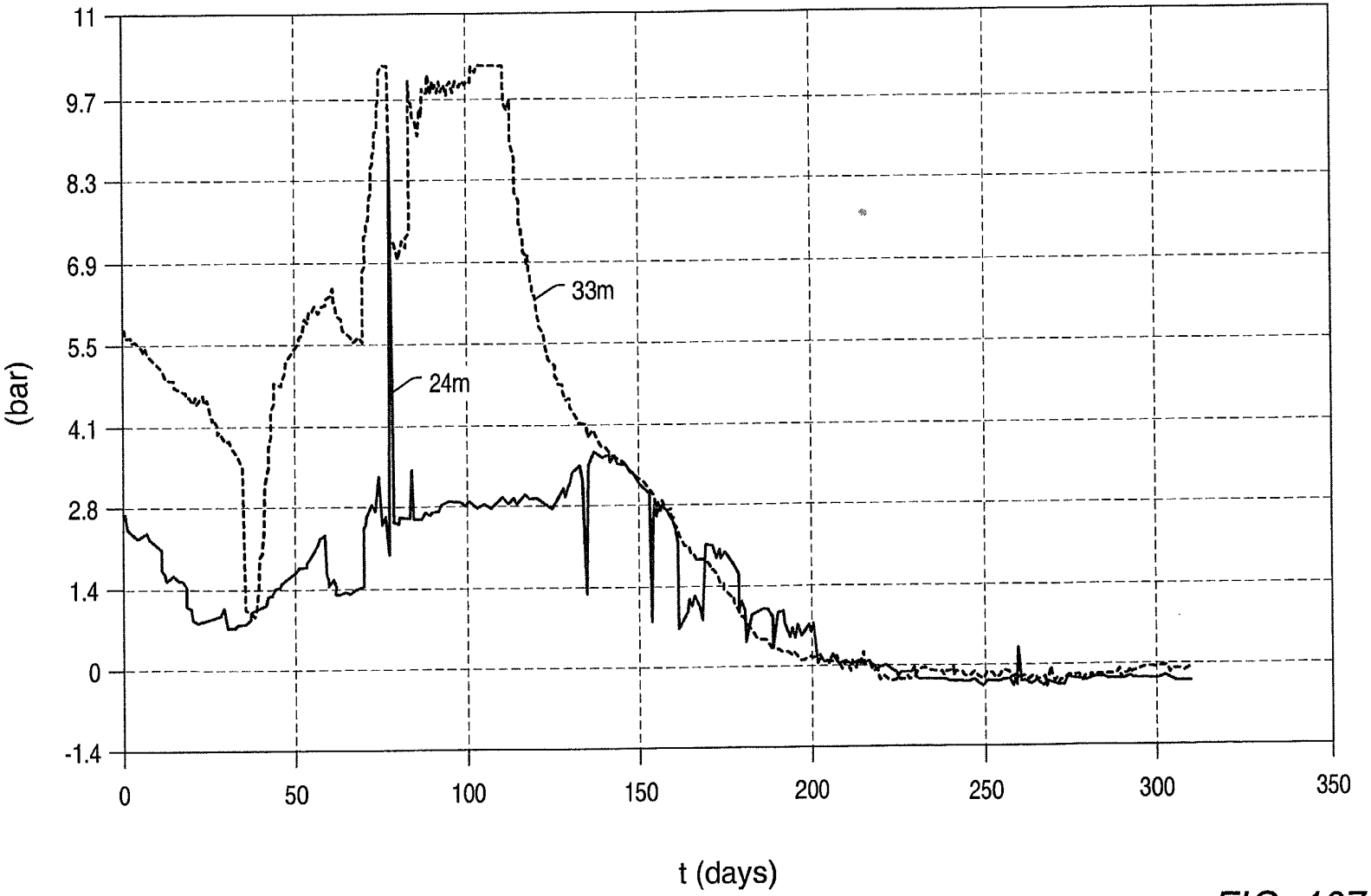

11
9.7
8.3
6.9
5.5
4.1
2.8
1.4
0
-1.4
(bar)
33m
24m
0
50
100
150
200
250
300
350
t (days)

FIG. 107

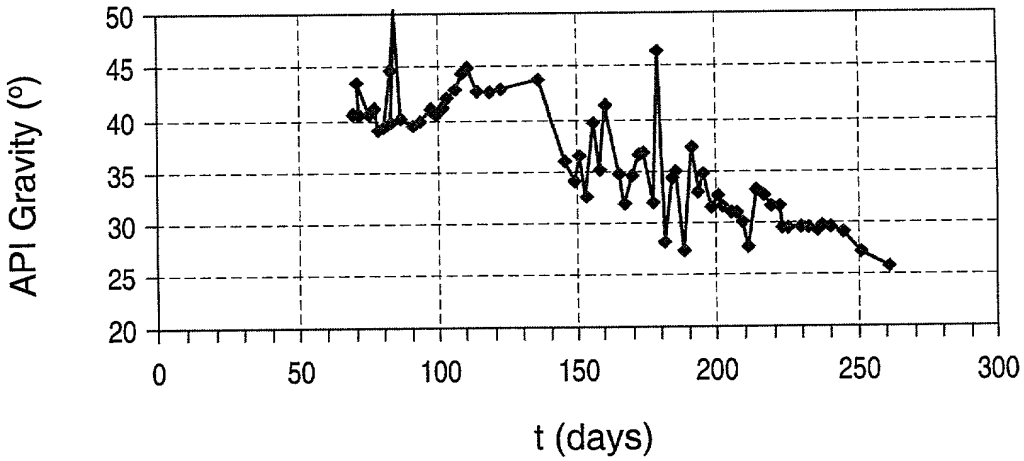


FIG. 108

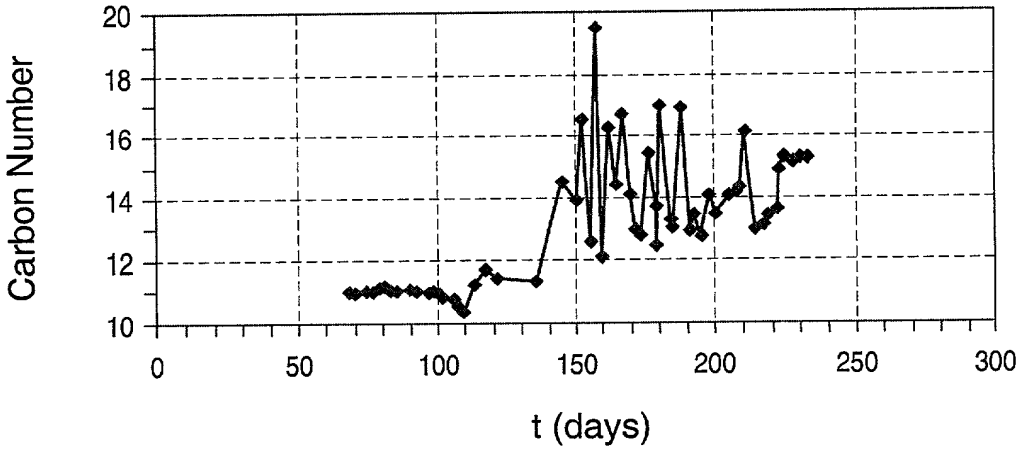


FIG. 109

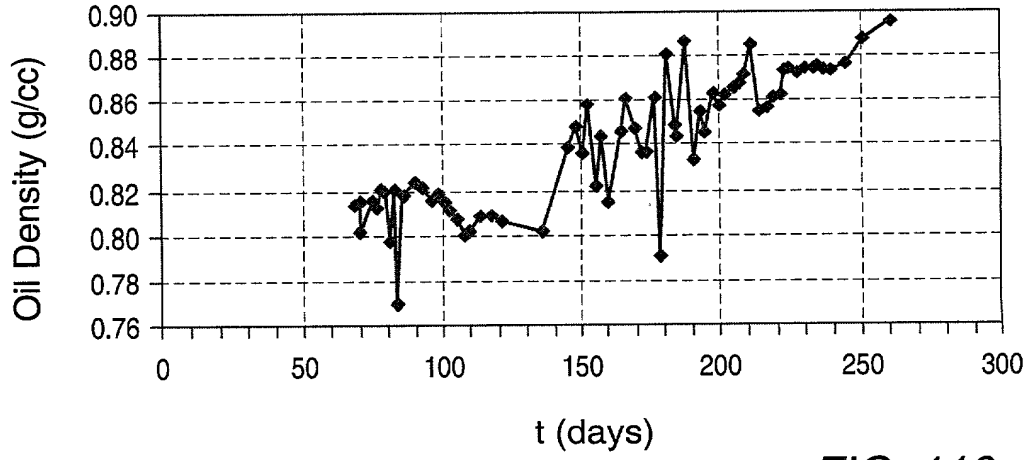


FIG. 110

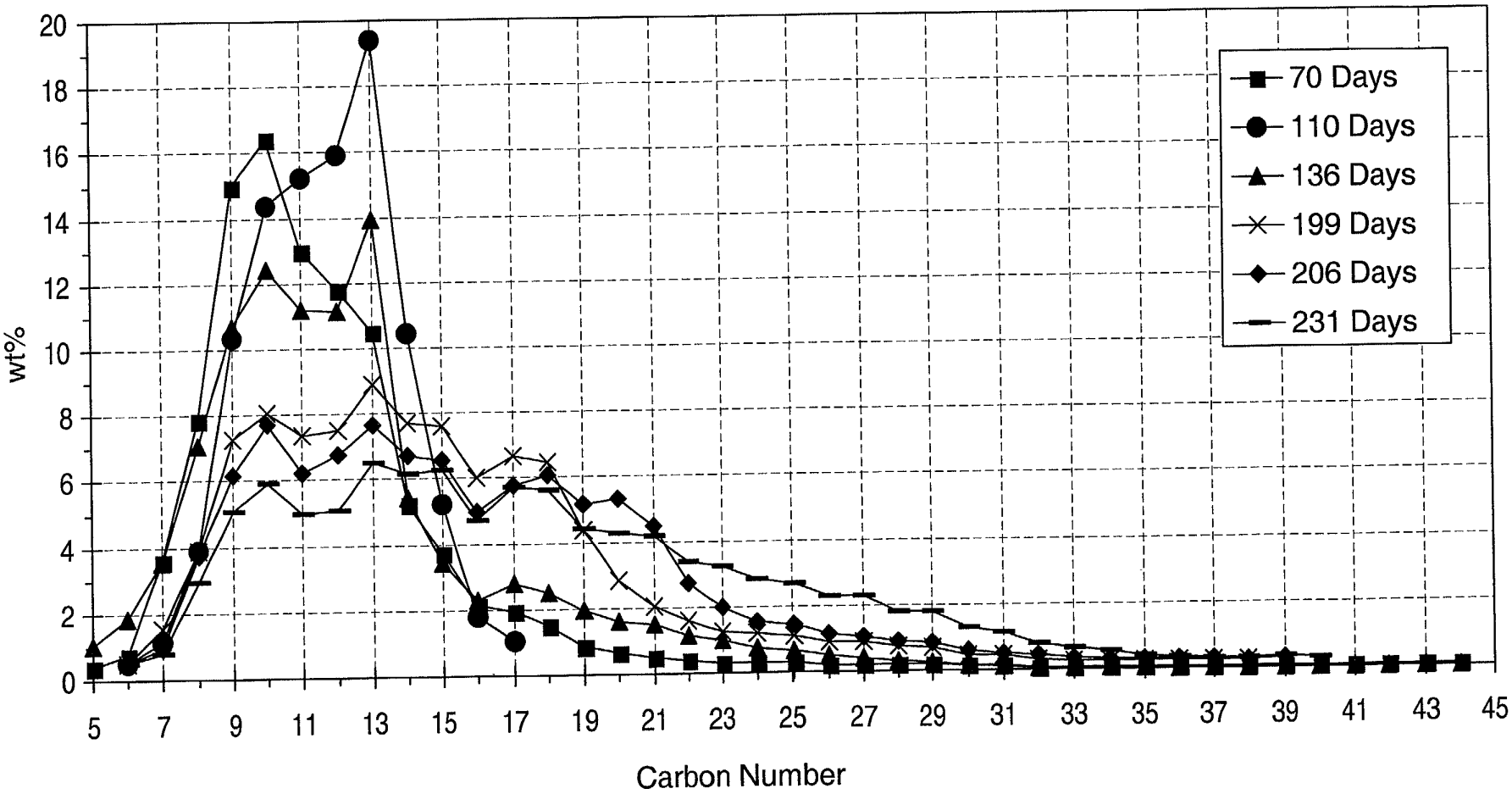

70 Days
110 Days
136 Days
199 Days
206 Days
231 Days
wt%
Carbon Number
0
2
4
6
8
10
12
14
16
18
20
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45

FIG. 111

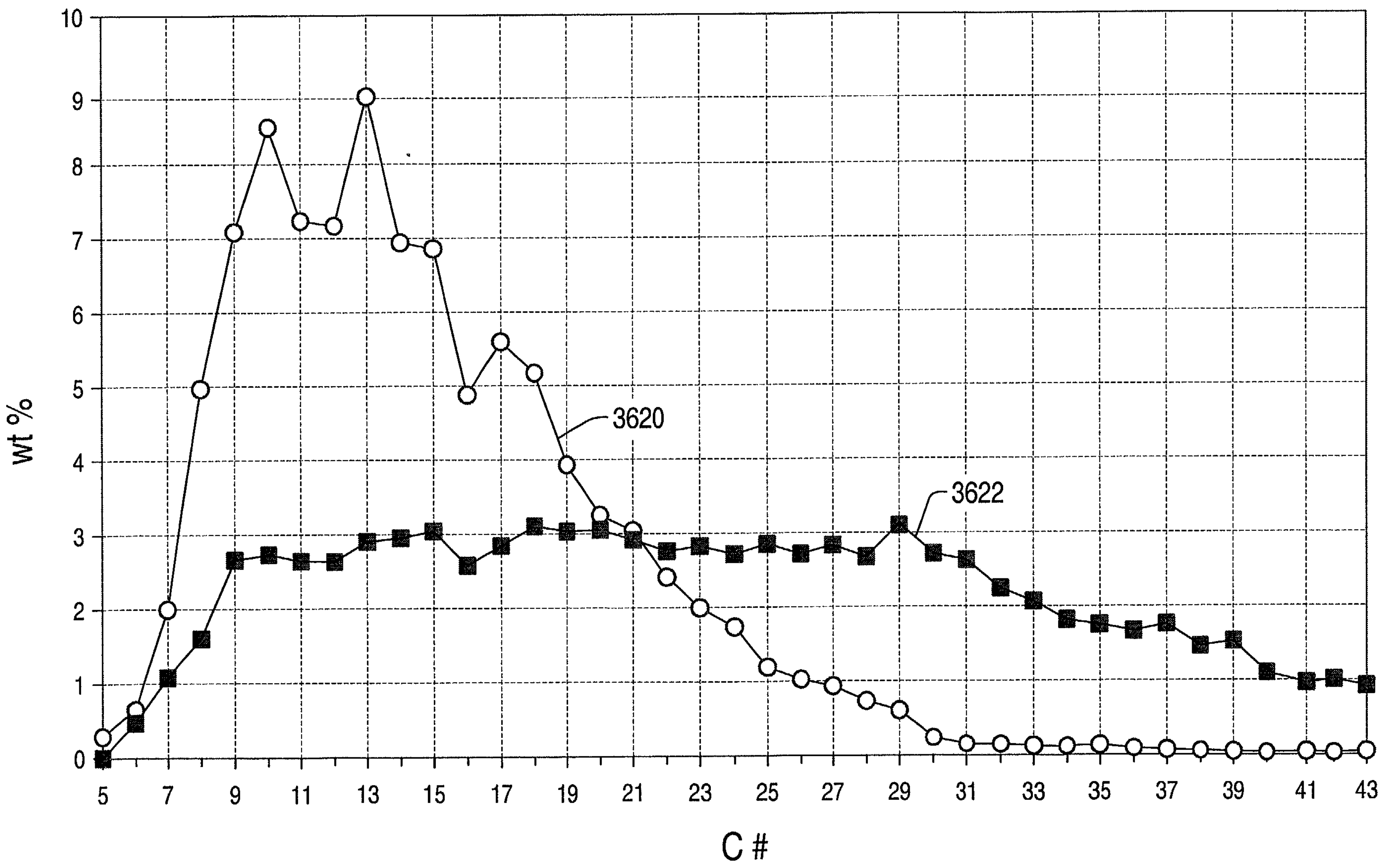

Wt %
C #
3620
3622
0
1
2
3
4
5
6
7
8
9
10
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43

FIG. 112

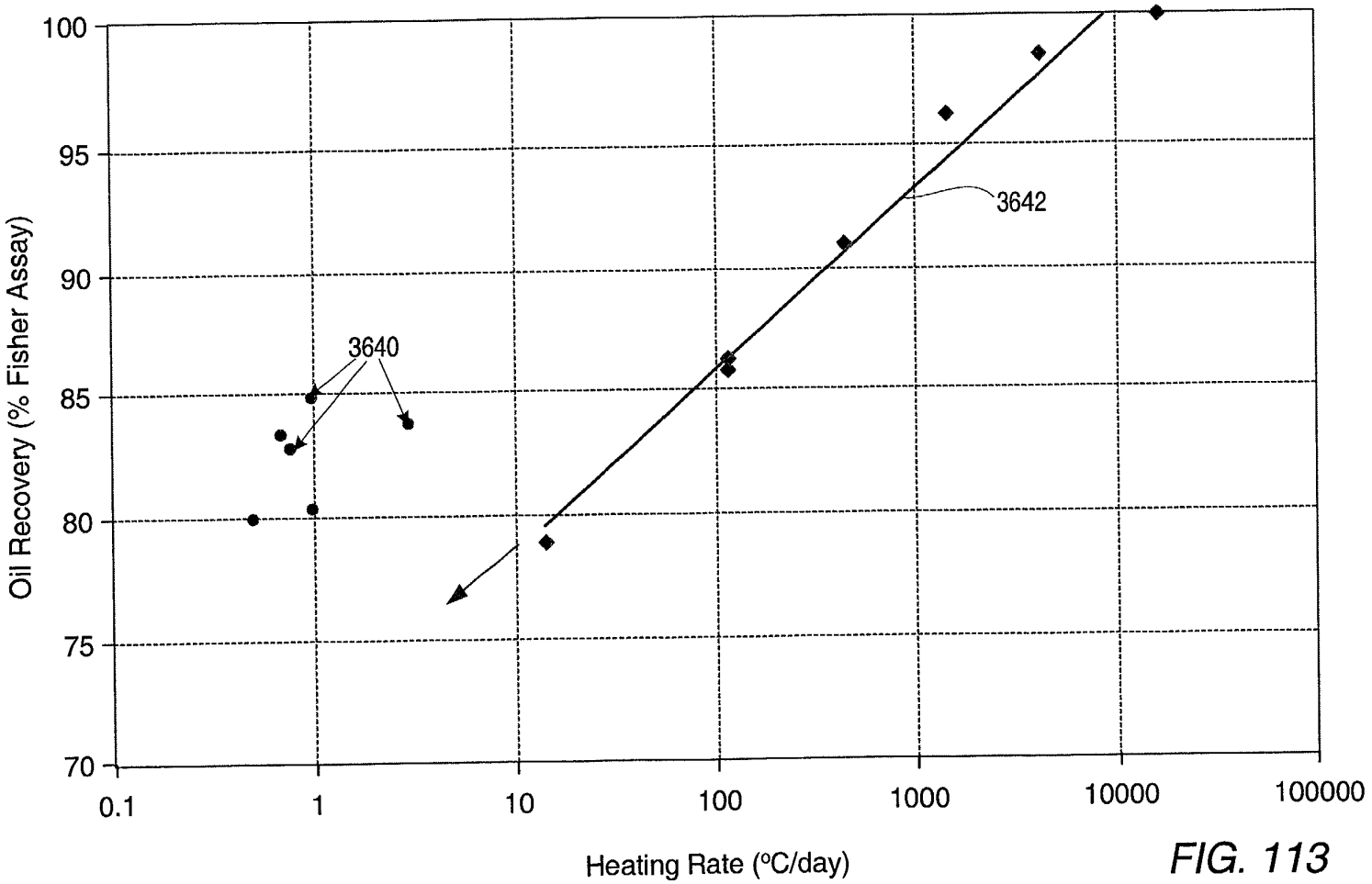

100
95
90
85
80
75
70
Oil Recovery (% Fisher Assay)
0.1
1
10
100
1000
10000
100000
Heating Rate (°C/day)
3640
3642

FIG. 113

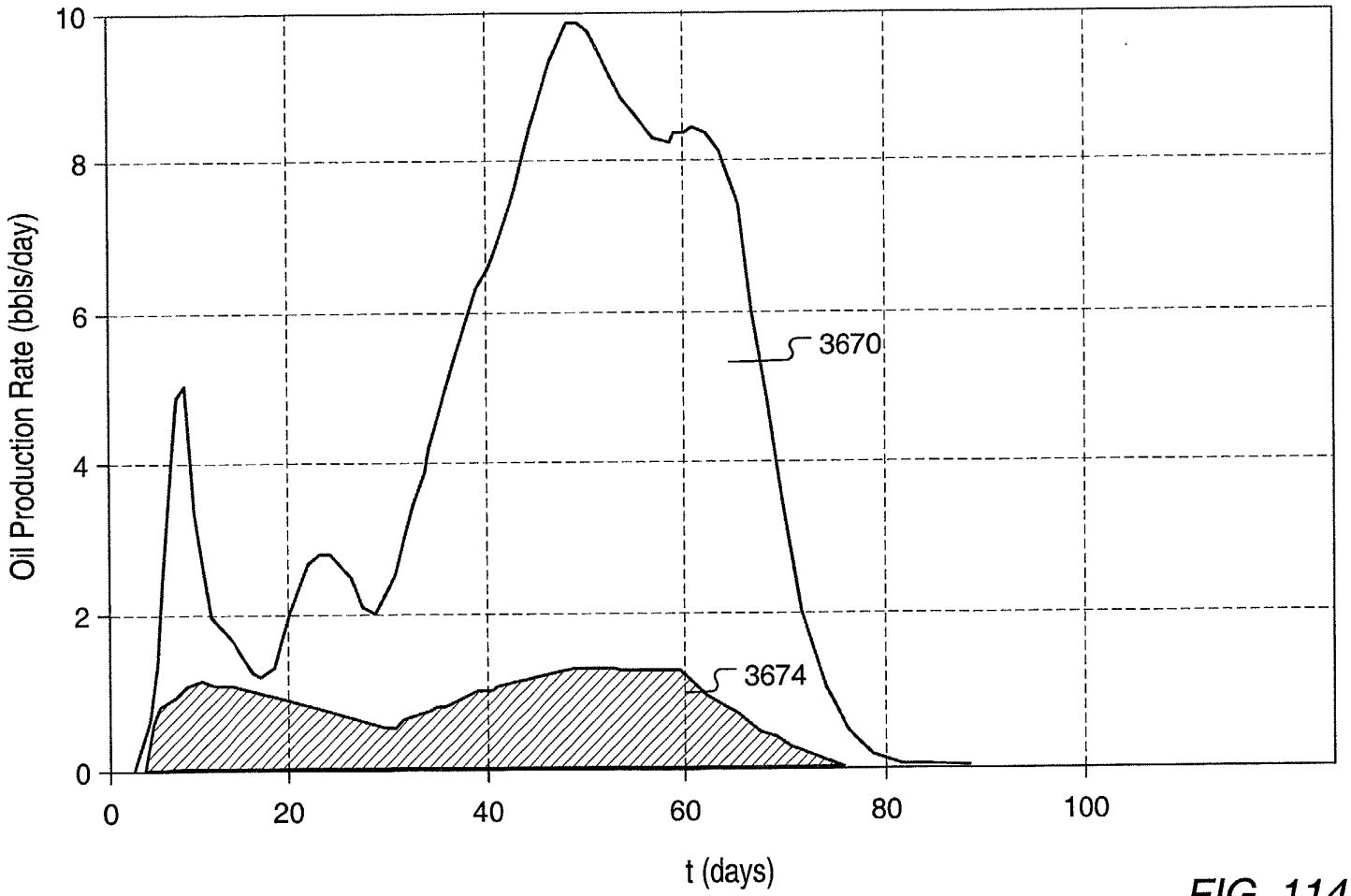

Oil Production Rate (bbls/day)
10
8
6
4
2
0
0
20
40
60
80
100
t (days)
3670
3674

FIG. 114

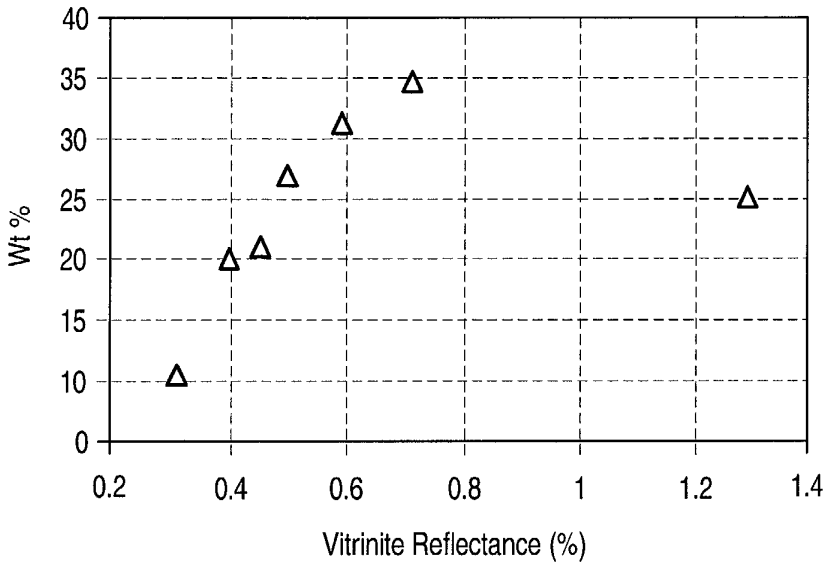


FIG. 115

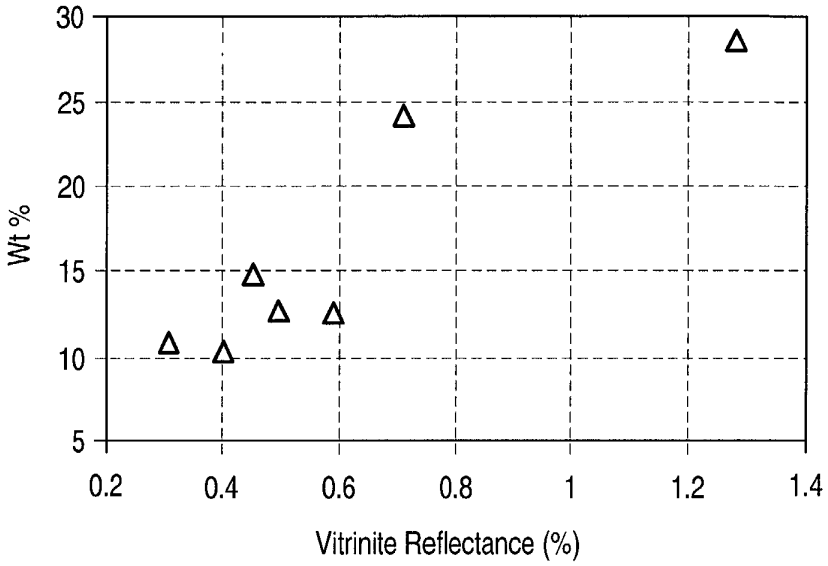


FIG. 116

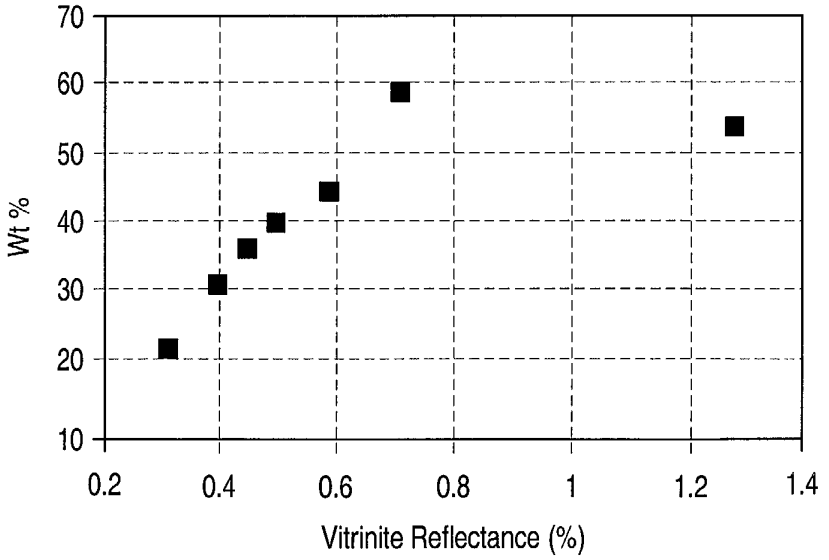


FIG. 117

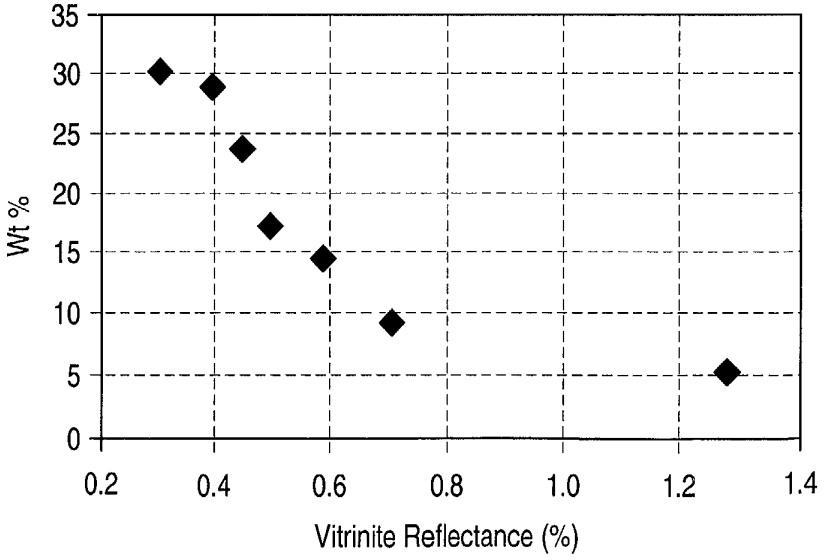


FIG. 118

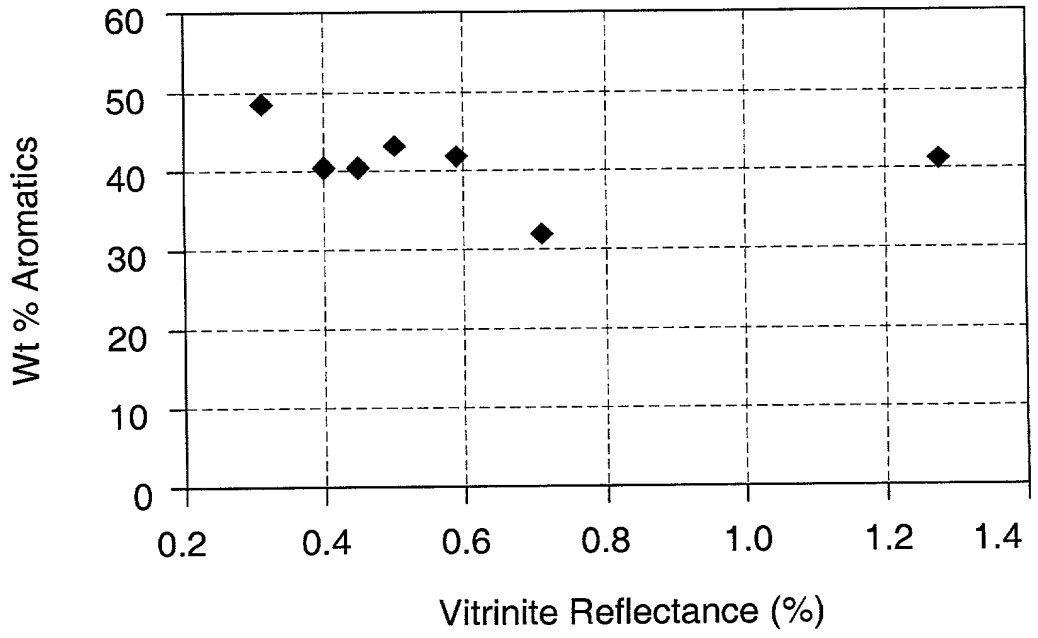


FIG. 119

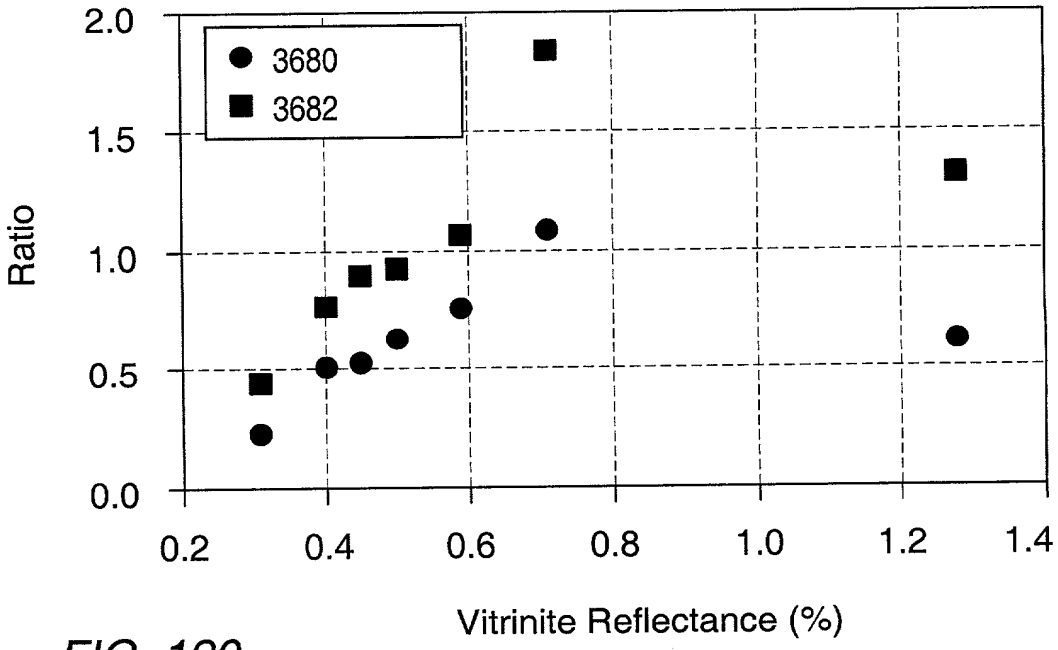


FIG. 120

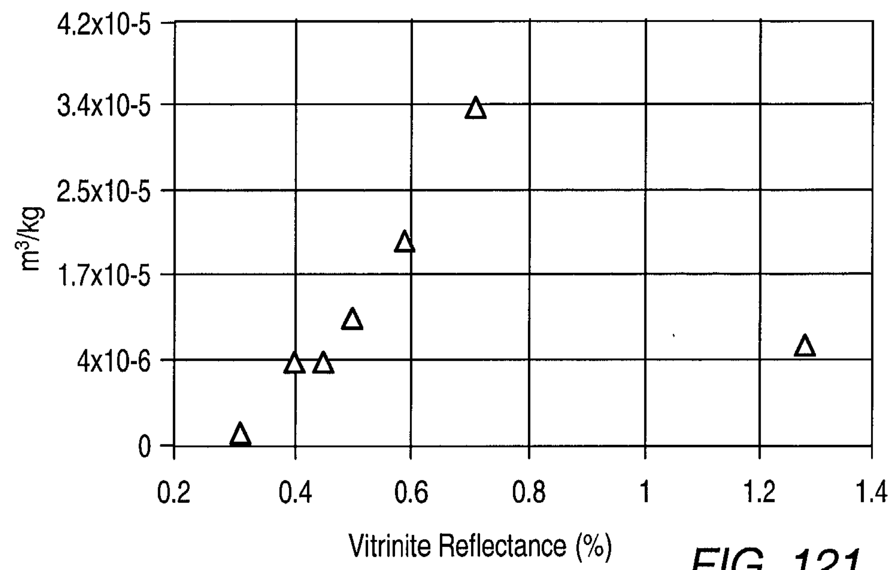


FIG. 121

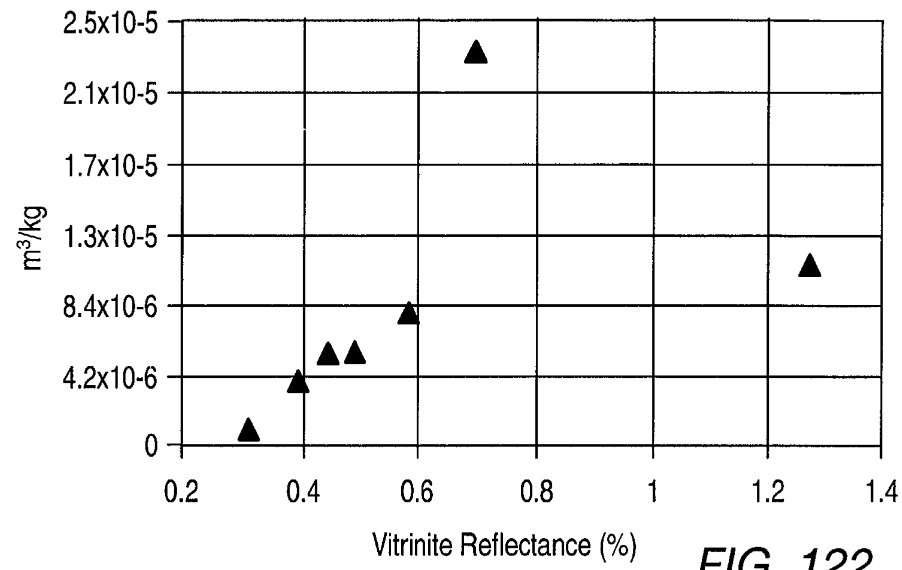


FIG. 122

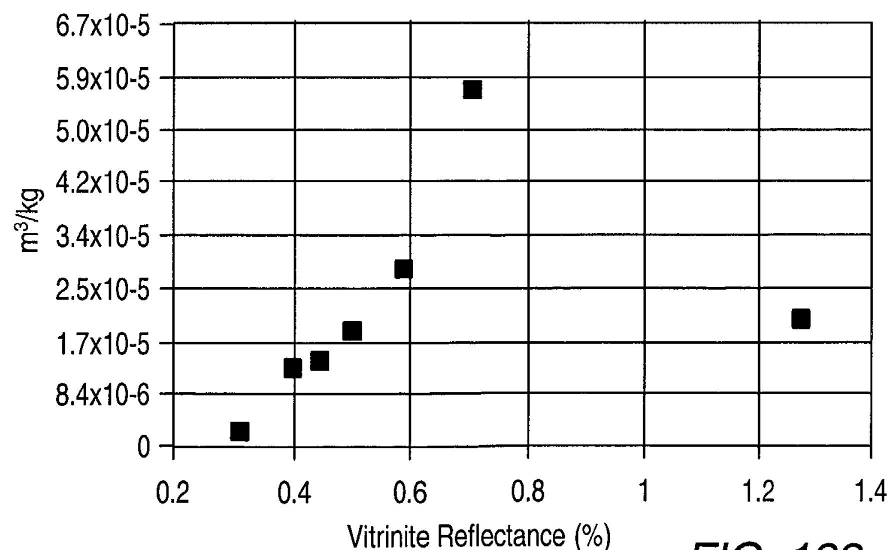


FIG. 123

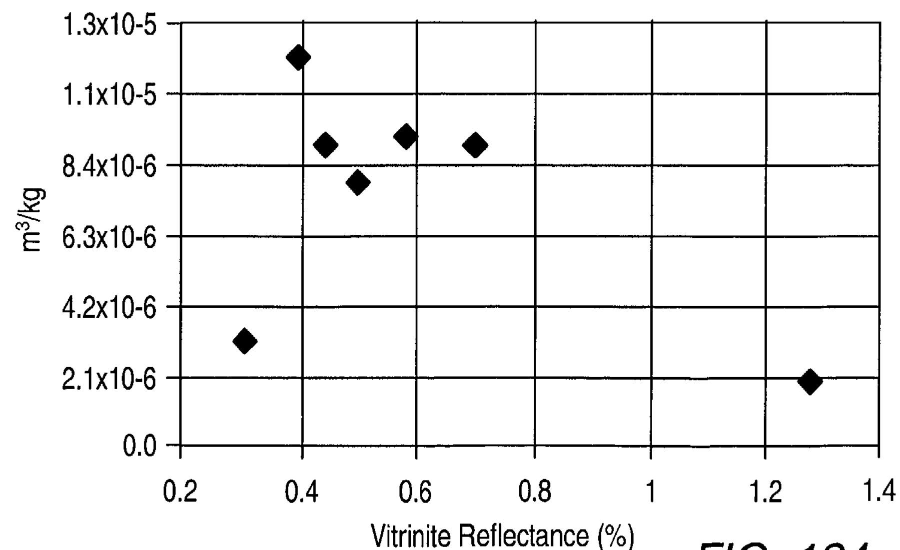


FIG. 124

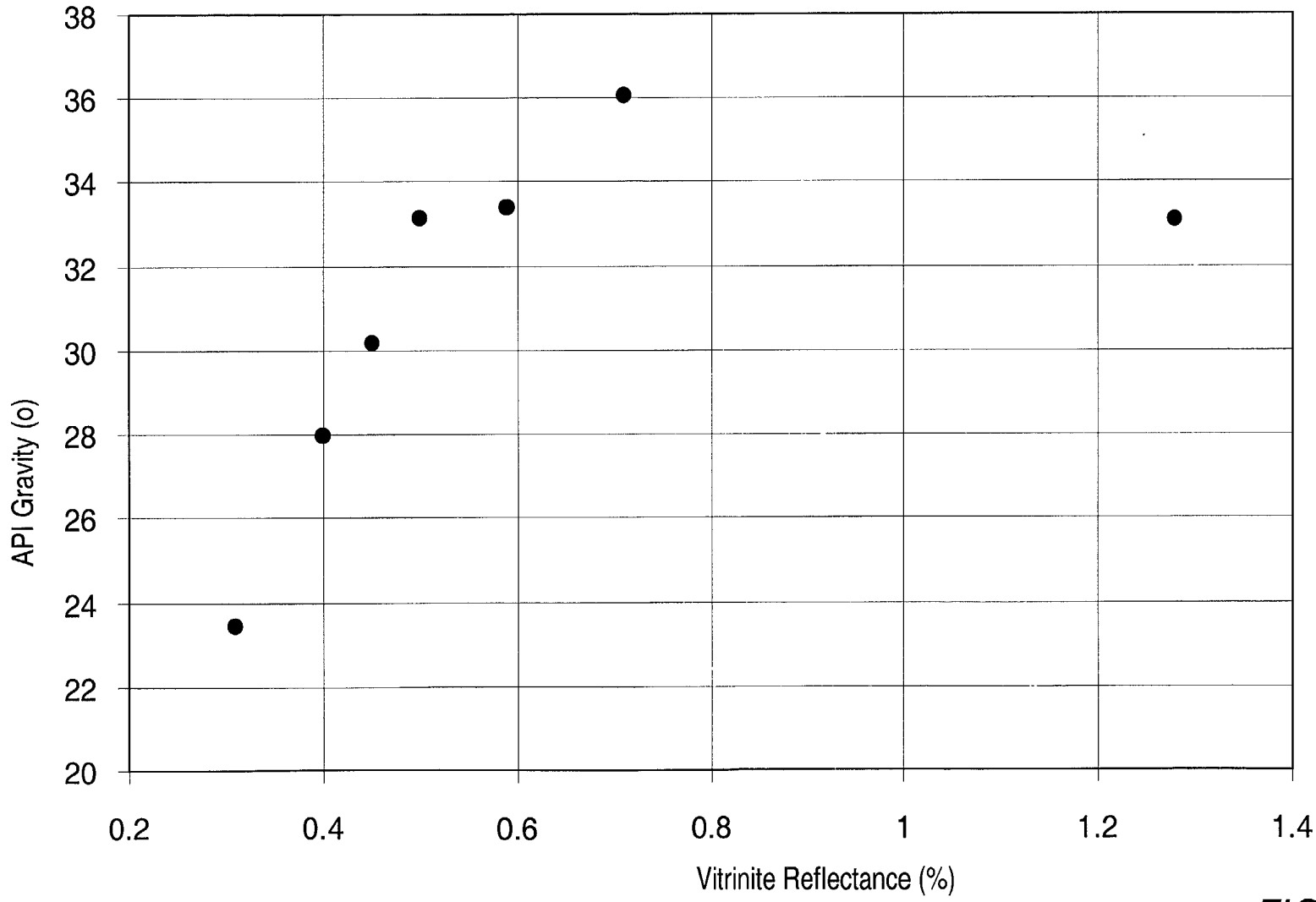

38
36
34
32
30
28
26
24
22
20
API Gravity (o)
0.2
0.4
0.6
0.8
1
1.2
1.4
Vitrinite Reflectance (%)

FIG. 125

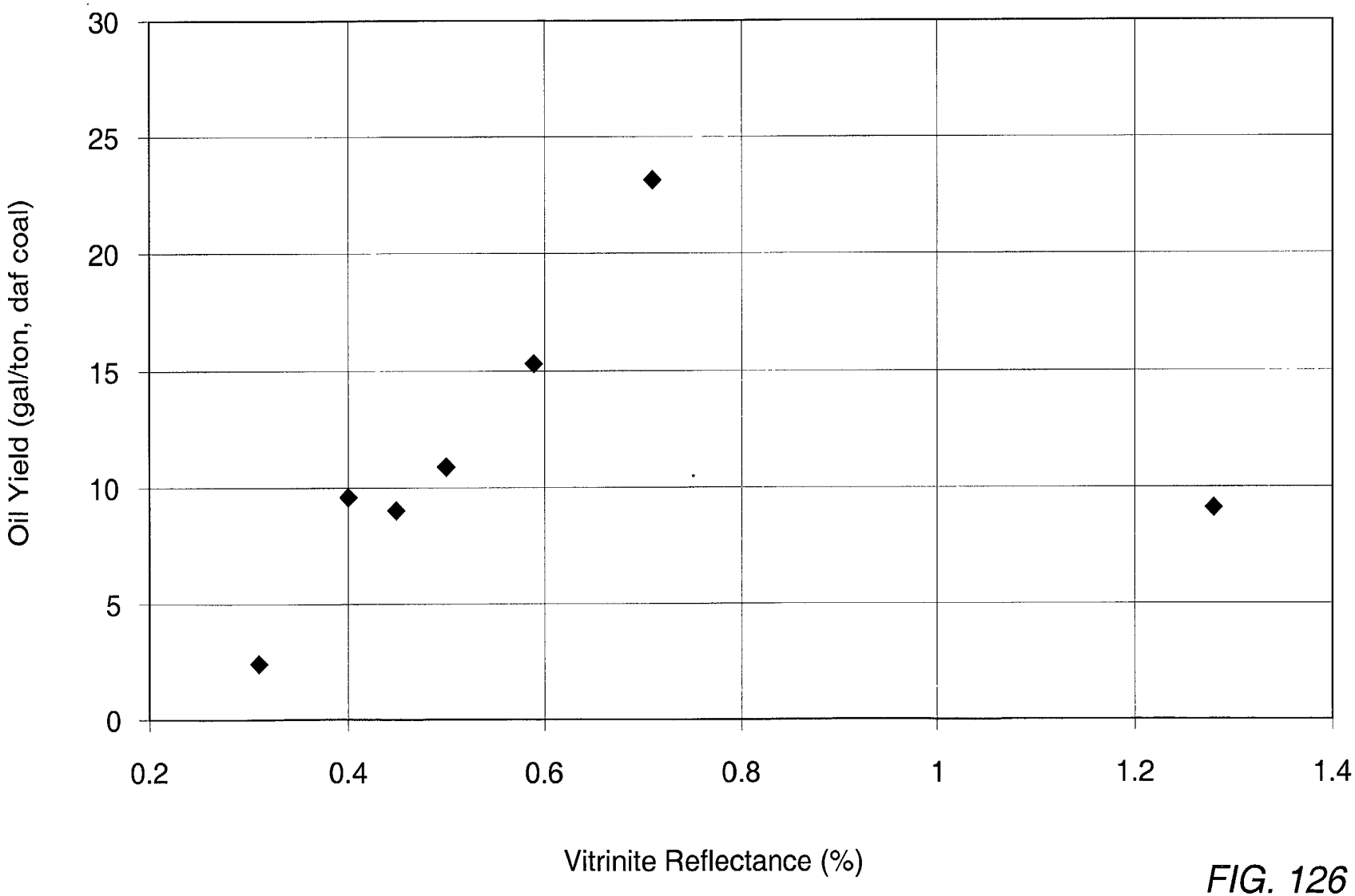

30
25
20
15
10
5
0
Oil Yield (gal/ton, daf coal)
0.2
0.4
0.6
0.8
1
1.2
1.4
Vitrinite Reflectance (%)

FIG. 126

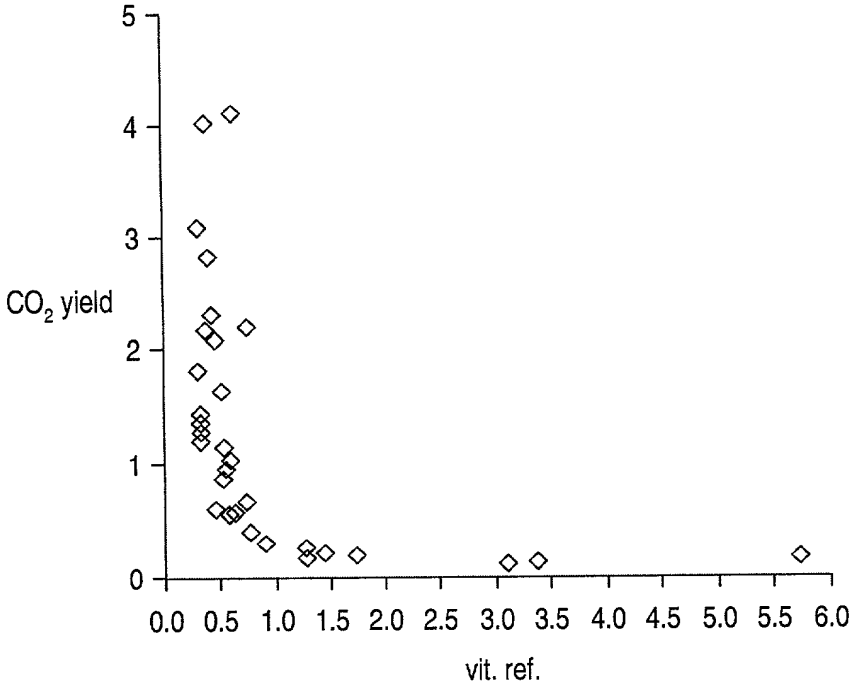


FIG. 127

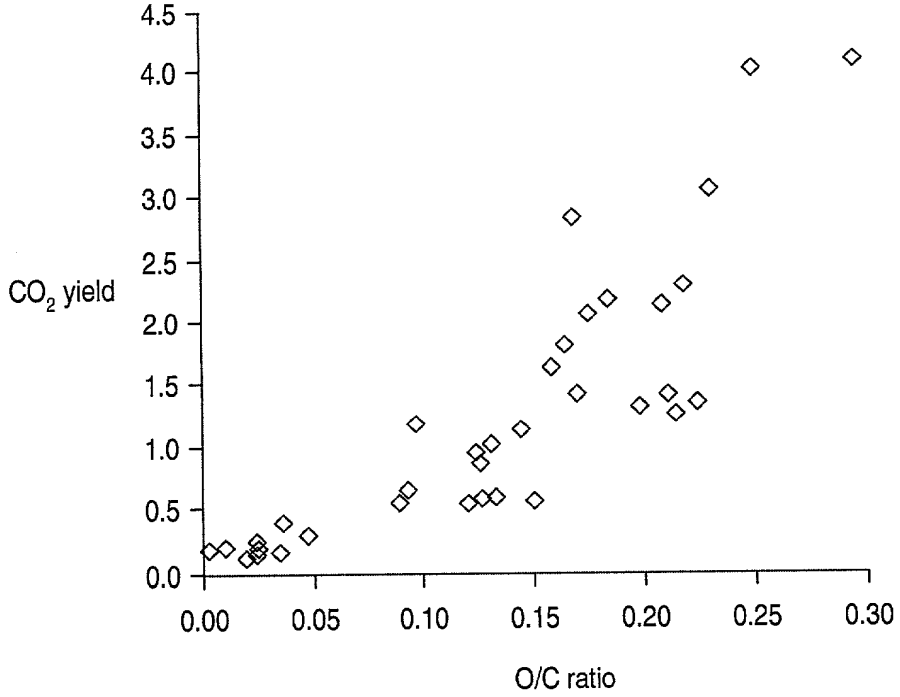


FIG. 128

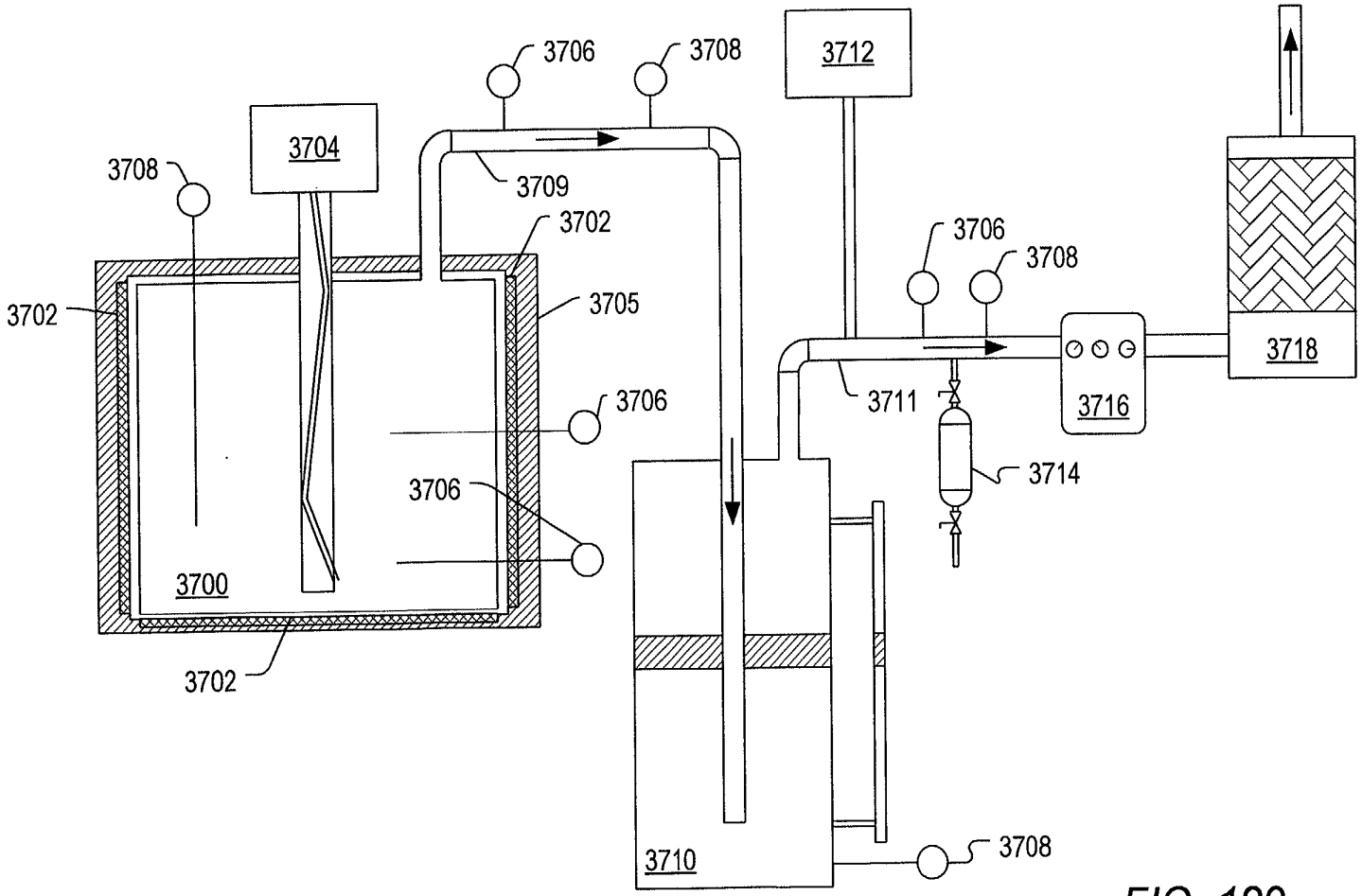

3706
3708
3712
3704
3708
3709
3702
3706
3708
3702
3705
3718
3706
3711
3716
3714
3706
3700
3702
3710
3708

FIG. 129

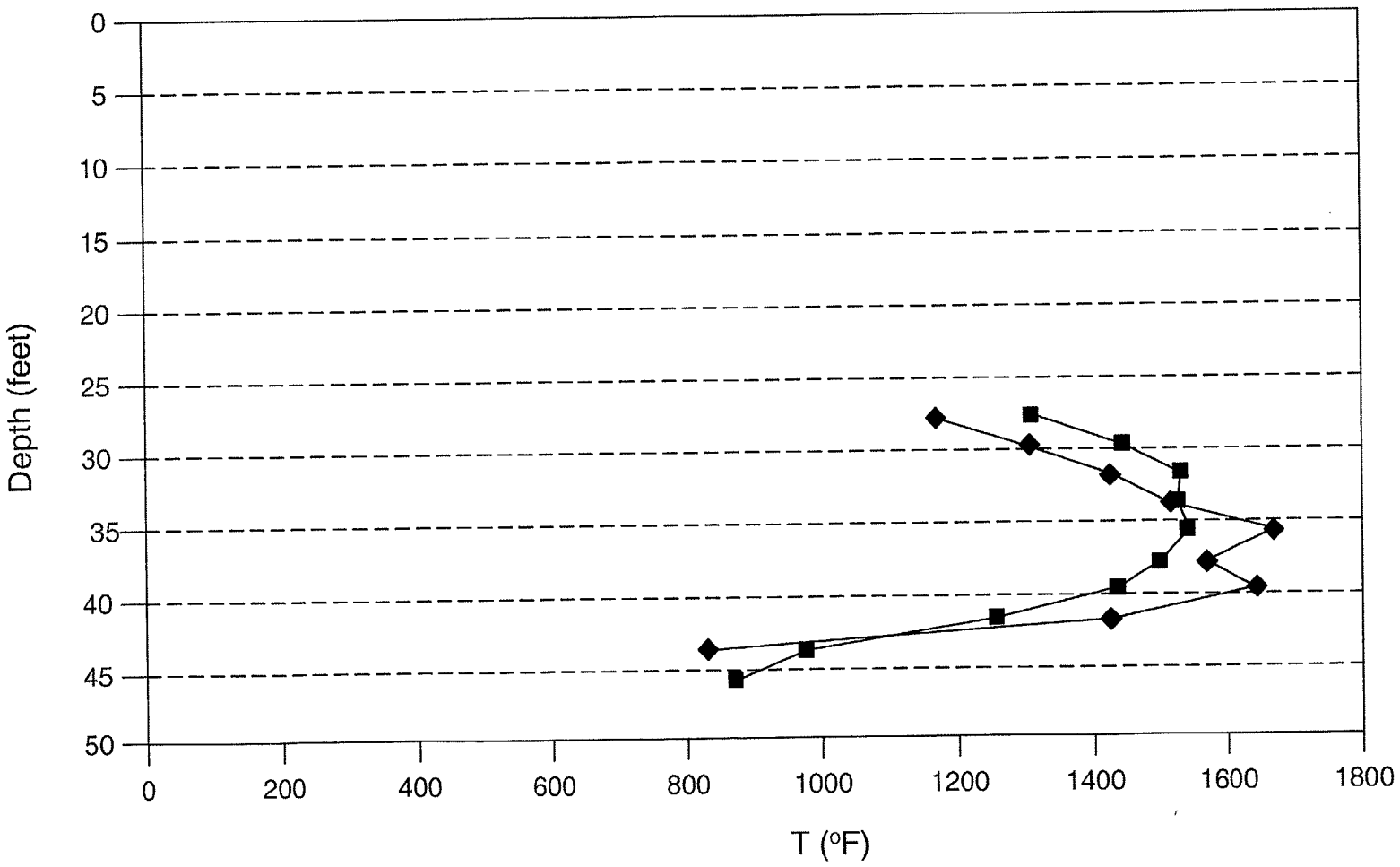

Depth (feet)
0
5
10
15
20
25
30
35
40
45
50
0
200
400
600
800
1000
1200
1400
1600
1800
T (°F)

FIG. 130

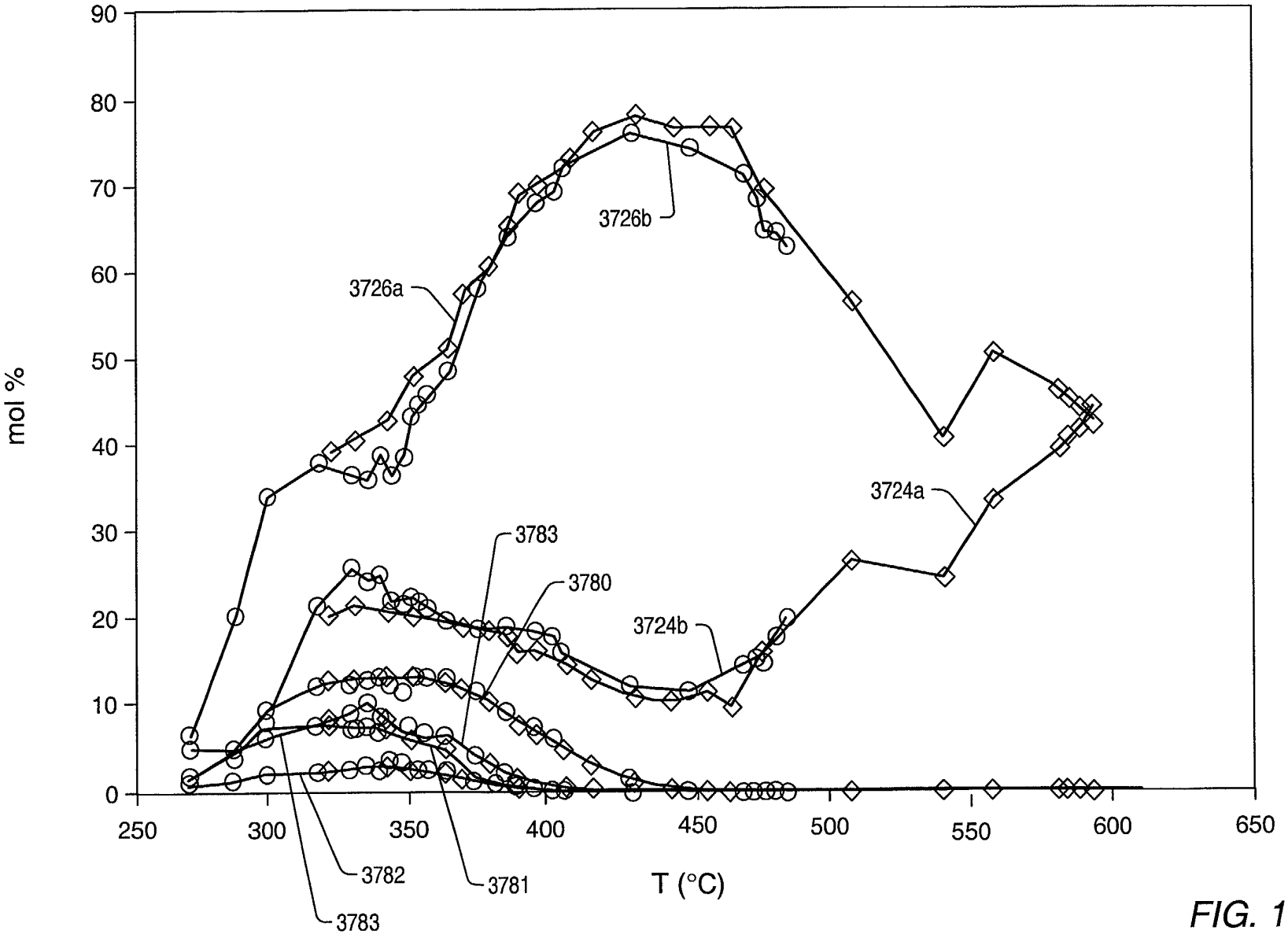

90
80
70
60
50
40
30
20
10
0
mol %
250
300
350
400
450
500
550
600
650
T (°C)
3726a
3726b
3724a
3724b
3783
3780
3782
3781
3783

FIG. 131

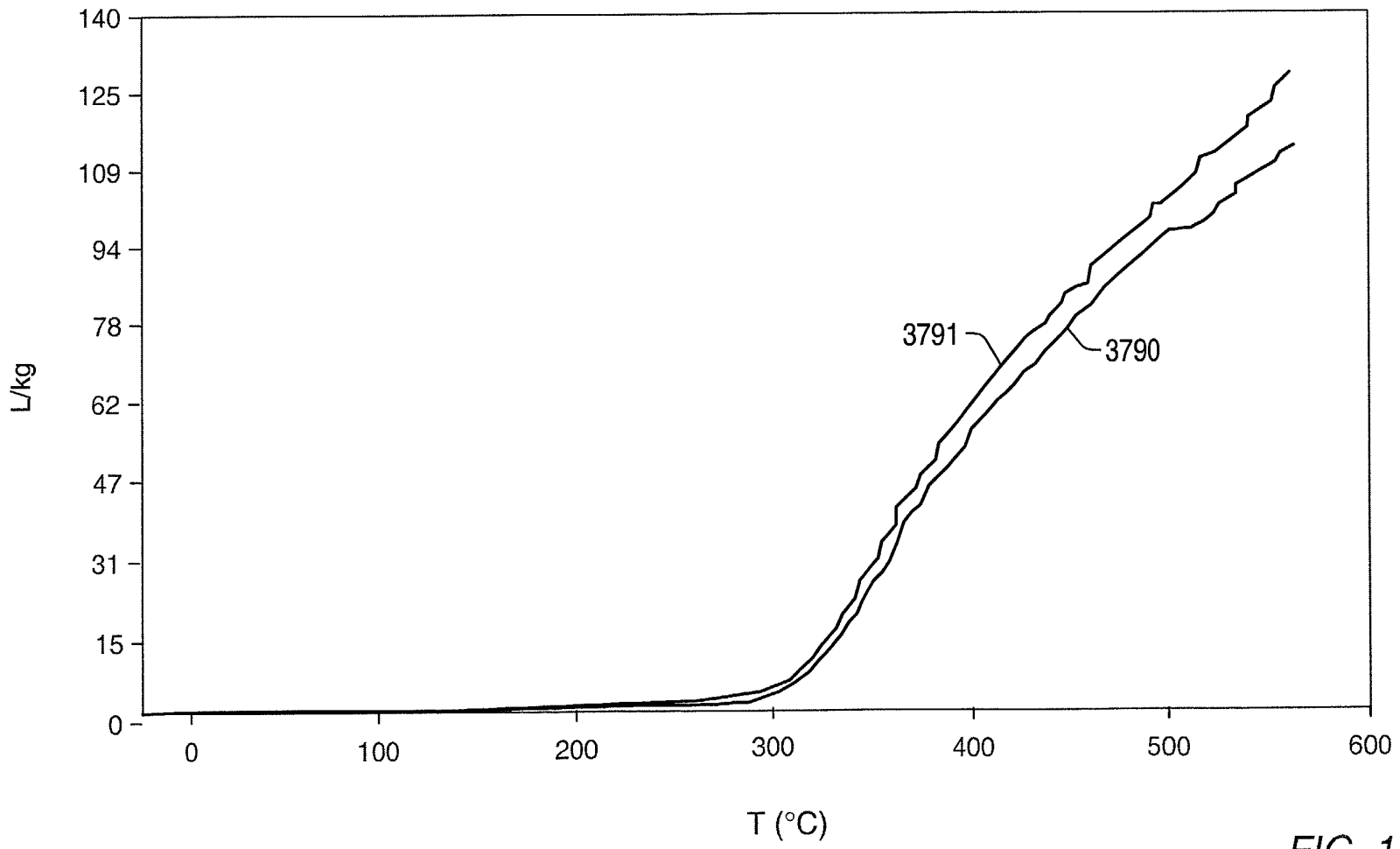

140
125
109
94
78
62
47
31
15
0
L/kg
0
100
200
300
400
500
600
T (°C)
3791
3790

FIG. 132

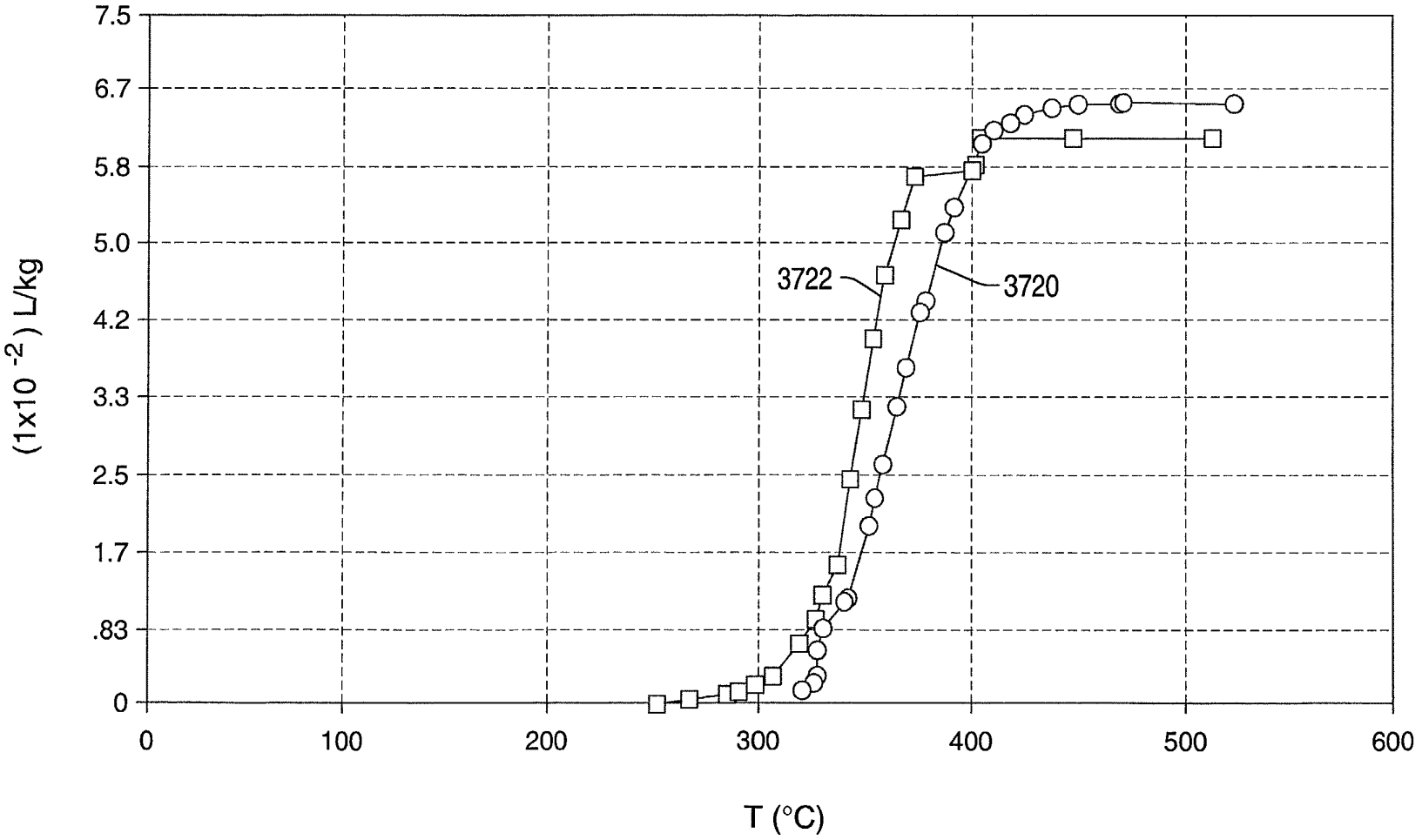


FIG. 133

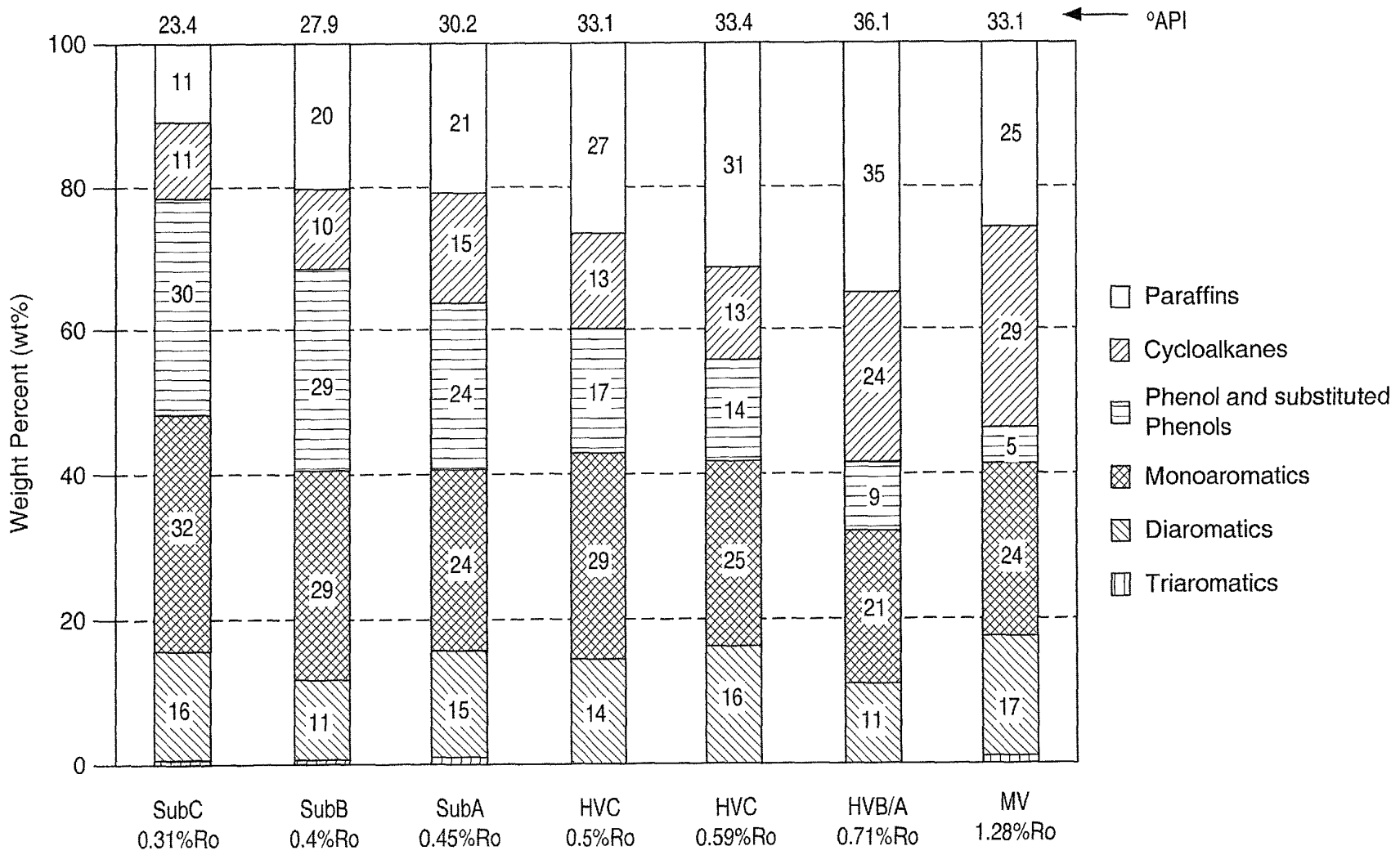

°API
23.4
27.9
30.2
33.1
33.4
36.1
33.1
Weight Percent (wt%)
100
80
60
40
20
0
11
11
30
32
16
20
10
29
29
11
21
15
24
24
15
27
13
17
29
14
31
13
14
25
16
35
24
9
21
11
25
29
5
24
17
SubC
0.31%Ro
SubB
0.4%Ro
SubA
0.45%Ro
HVC
0.5%Ro
HVC
0.59%Ro
HVB/A
0.71%Ro
MV
1.28%Ro
Paraffins
Cycloalkanes
Phenol and substituted Phenols
Monoaromatics
Diaromatics
Triaromatics

FIG. 134

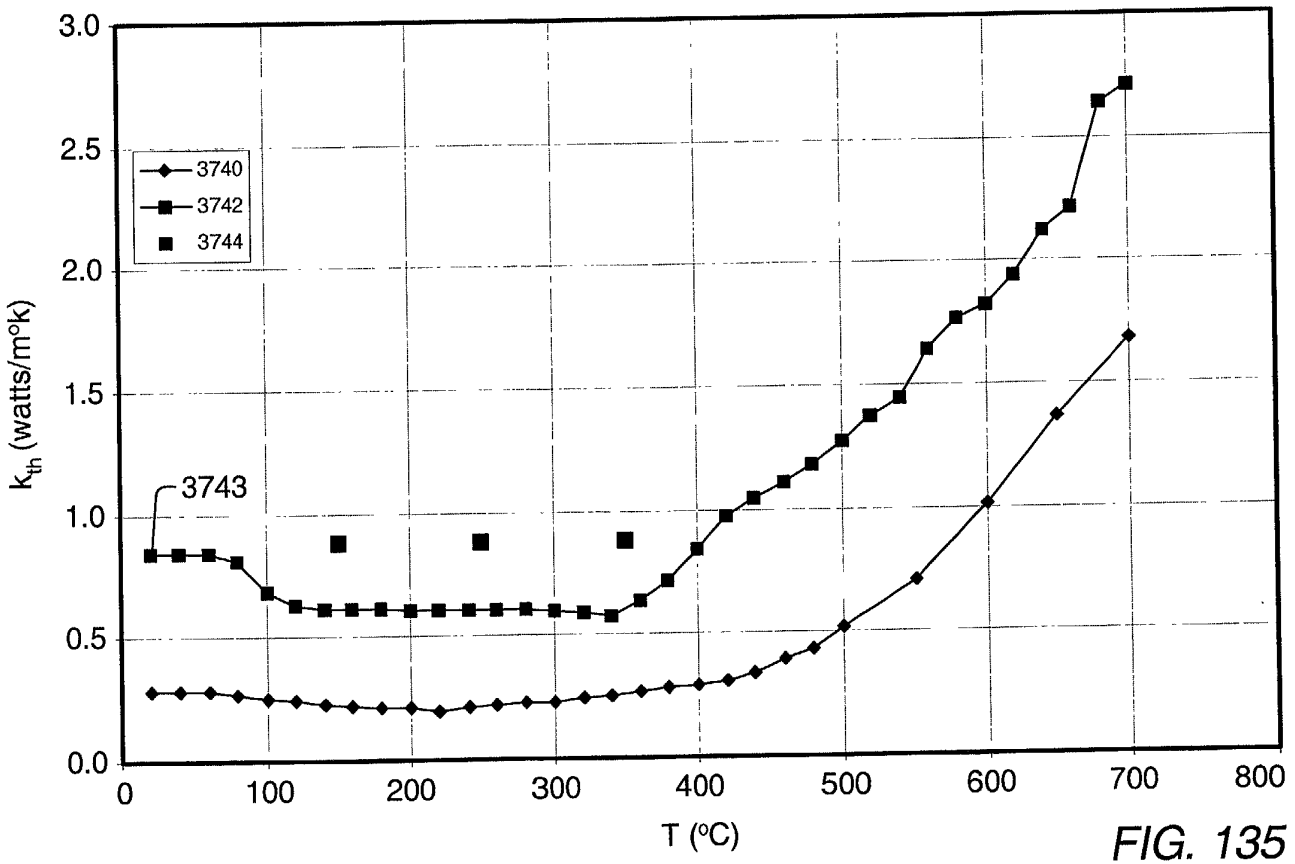

3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
100
200
300
400
500
600
700
800
k_{th} (watts/m°k)
T (°C)
3740
3742
3744
3743

FIG. 135

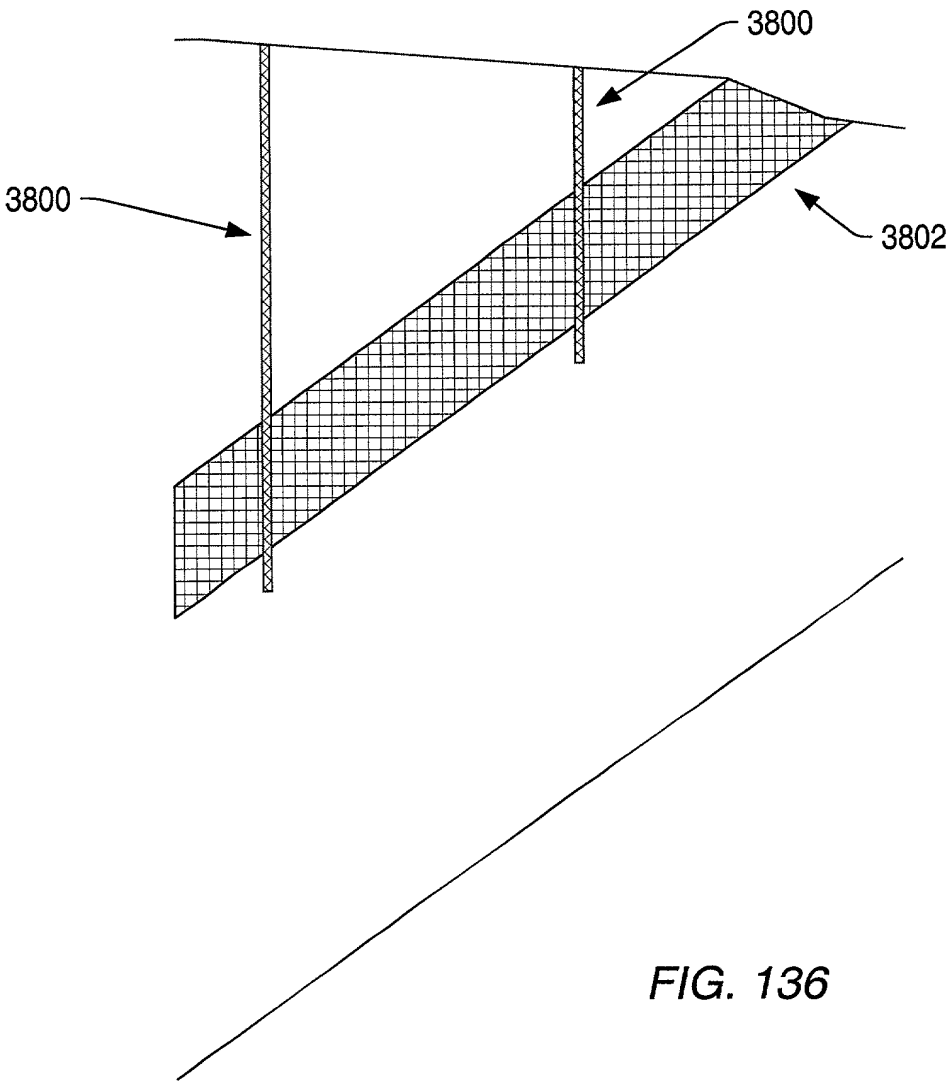


FIG. 136

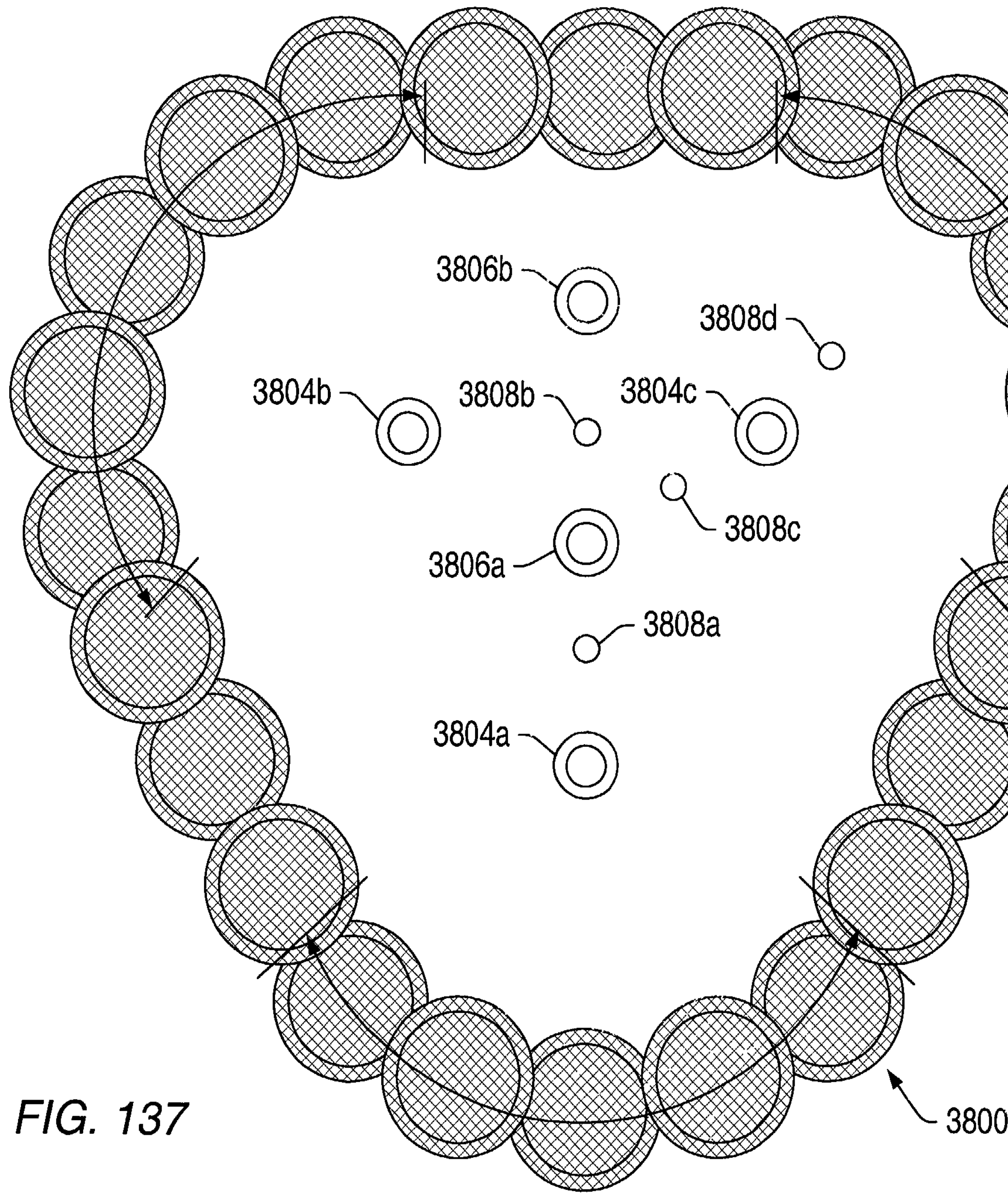


FIG. 137

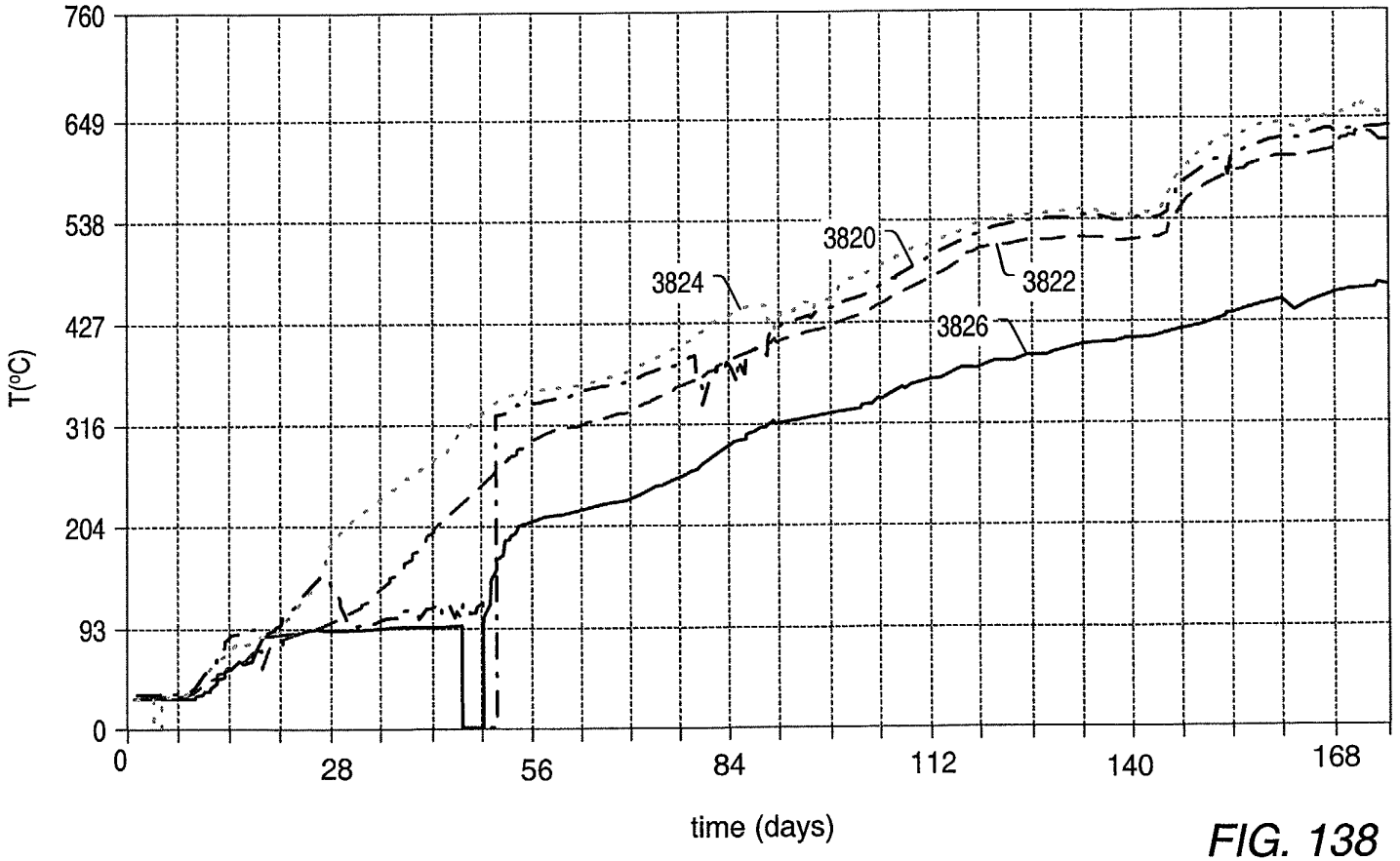

760
649
538
427
316
204
93
0
T(°C)
0
28
56
84
112
140
168
time (days)
3820
3822
3824
3826

FIG. 138

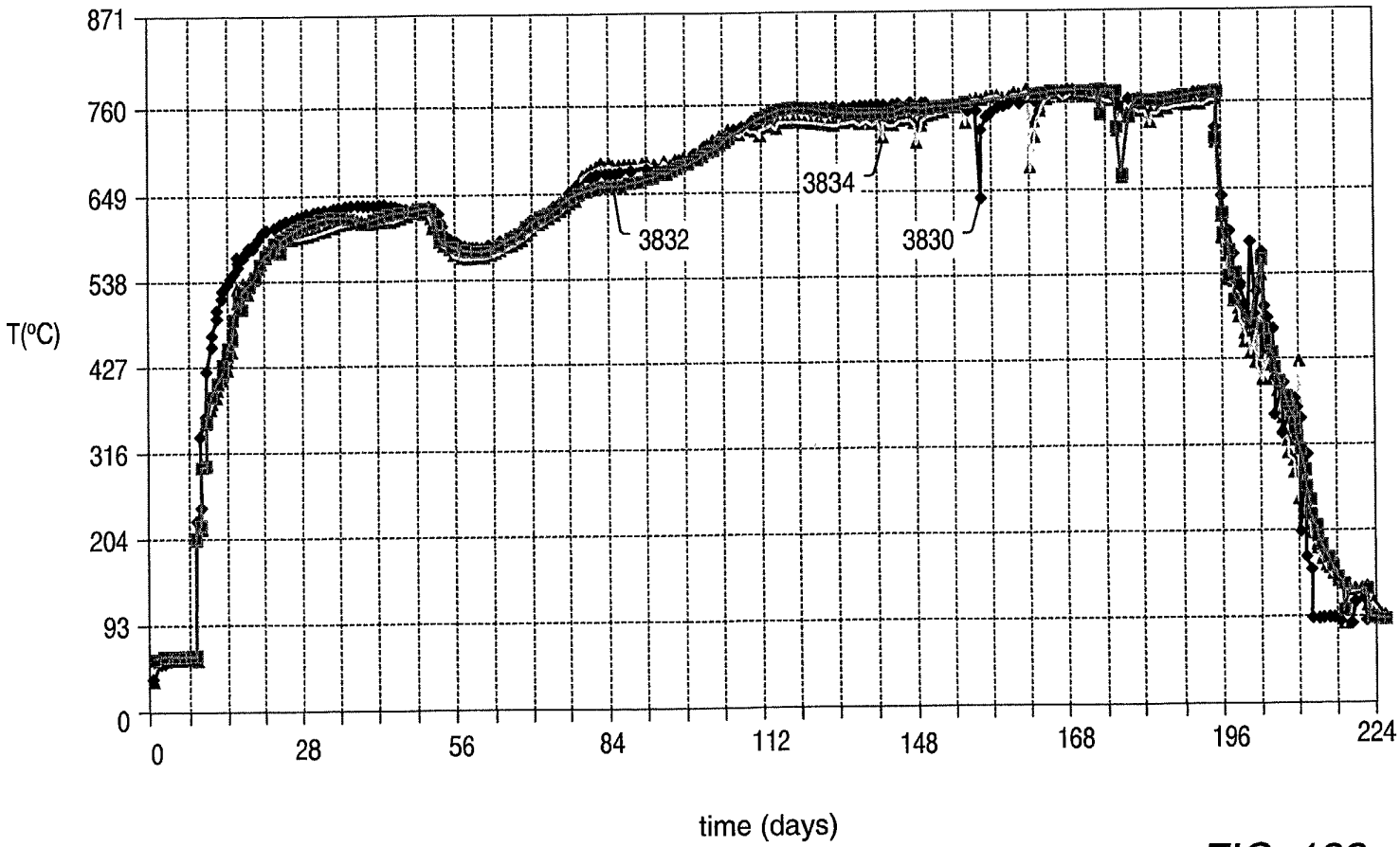

871
760
649
538
427
316
204
93
0
T(°C)
0
28
56
84
112
148
168
196
224
time (days)
3832
3834
3830

FIG. 139

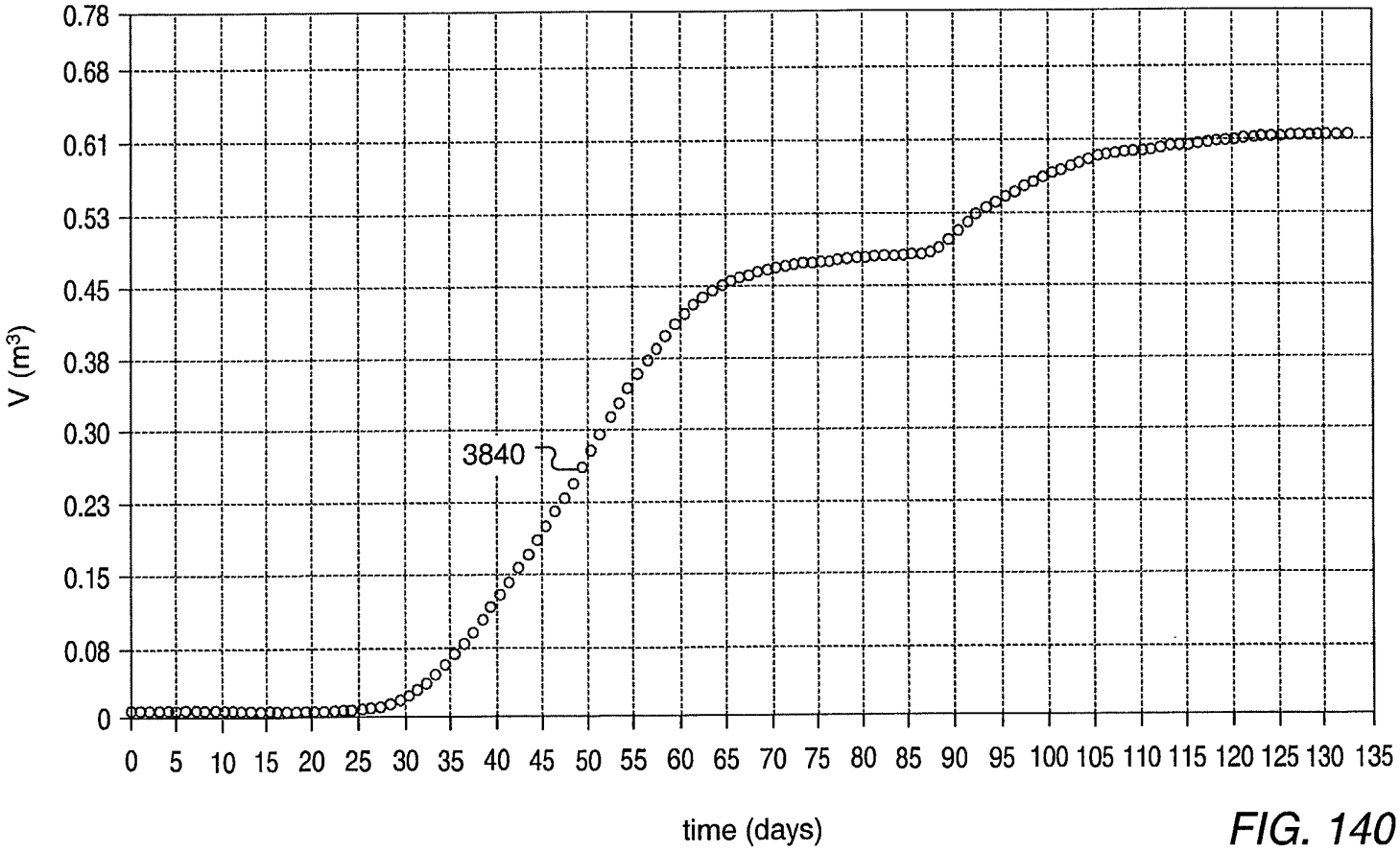

0.78
0.68
0.61
0.53
0.45
0.38
0.30
0.23
0.15
0.08
0
V (m3)
3840
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135
time (days)

FIG. 140

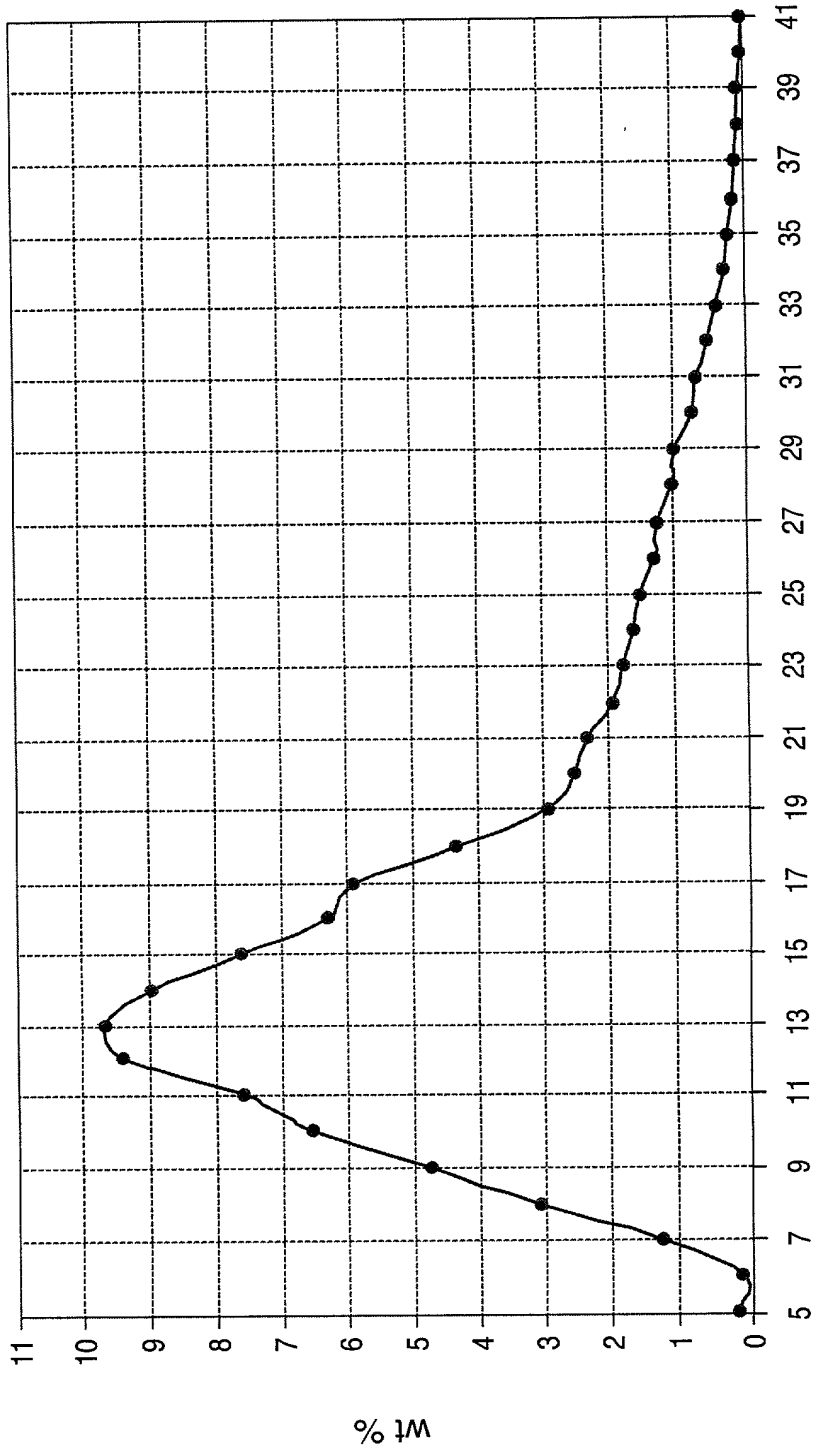

wt %
11
10
9
8
7
6
5
4
3
2
1
0
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
C #

FIG. 141

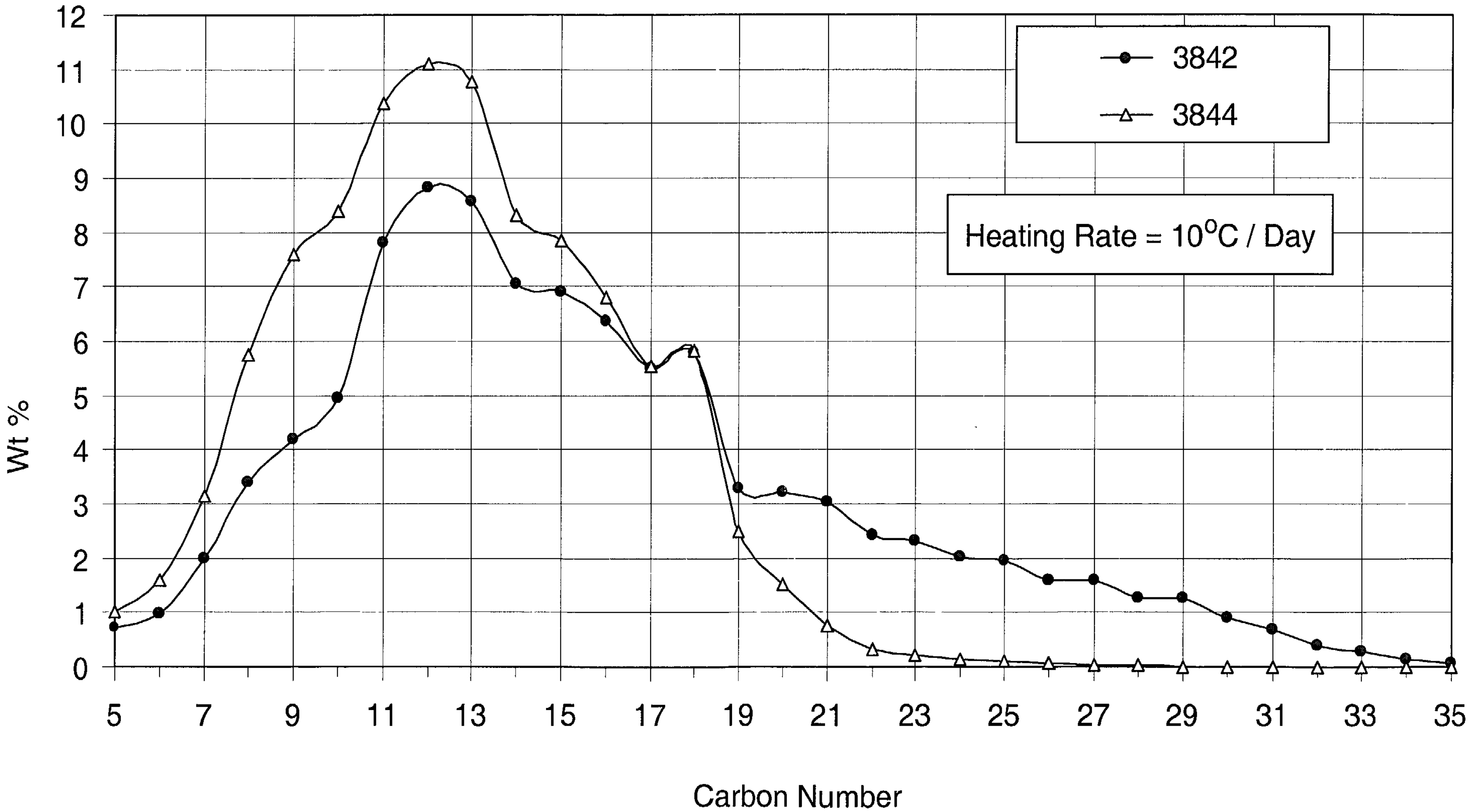

Wt %
12
11
10
9
8
7
6
5
4
3
2
1
0
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
Carbon Number
3842
3844
Heating Rate = 10°C / Day

FIG. 142

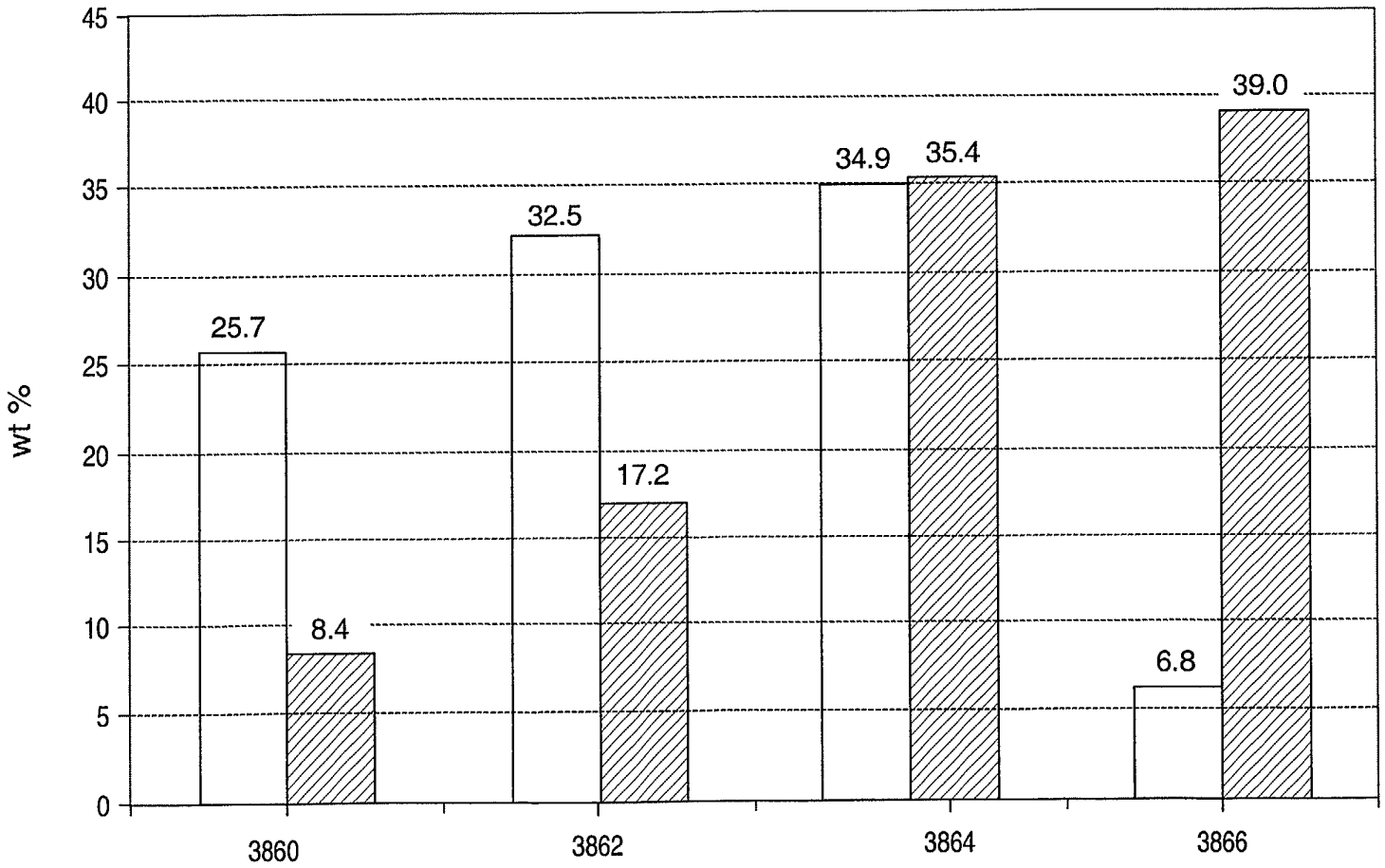

45
40
35
30
25
20
15
10
5
0
wt %
25.7
8.4
32.5
17.2
34.9
35.4
6.8
39.0
3860
3862
3864
3866

FIG. 143

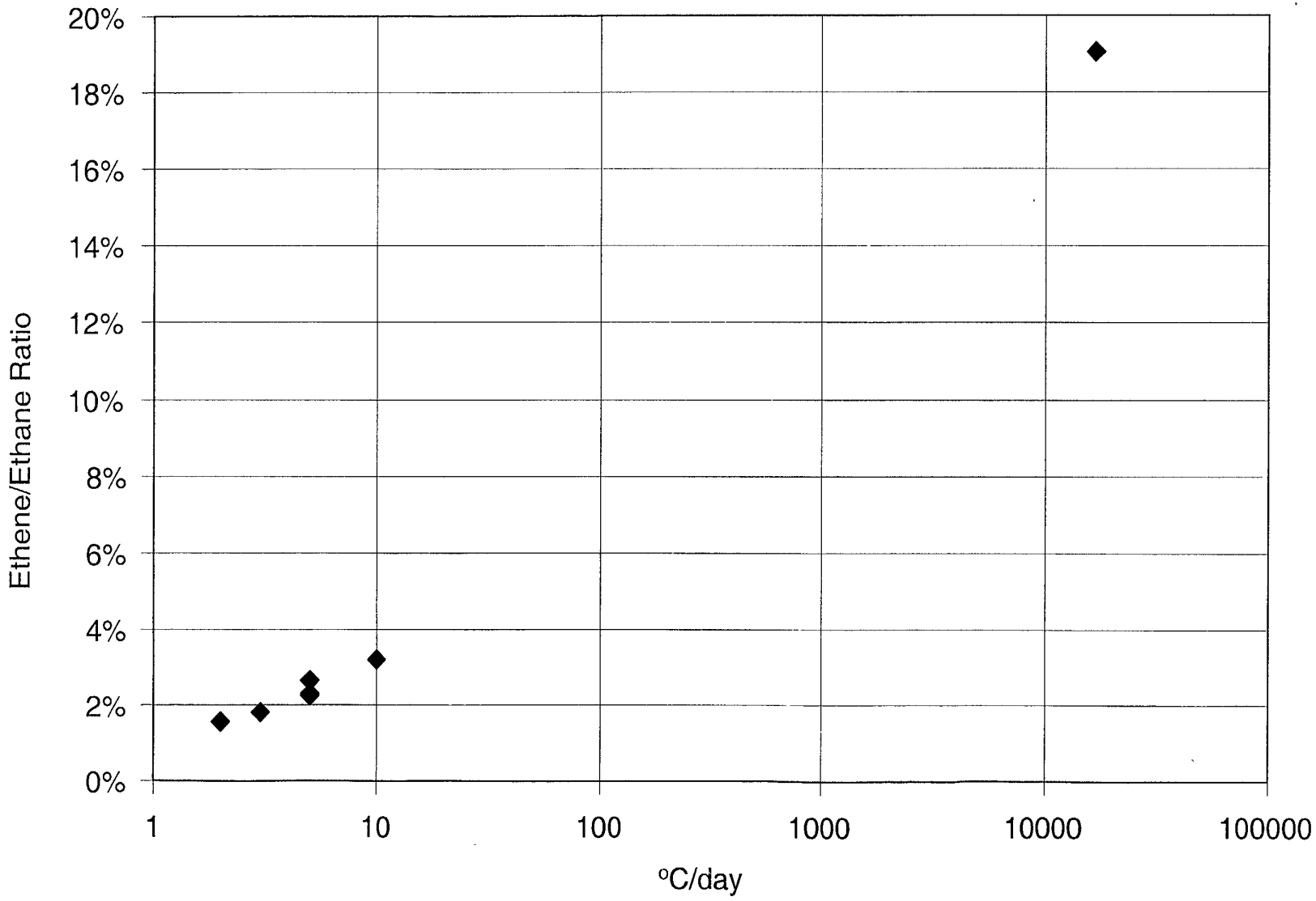

20%
18%
16%
14%
12%
10%
8%
6%
4%
2%
0%
Ethene/Ethane Ratio
1
10
100
1000
10000
100000
°C/day

FIG. 144

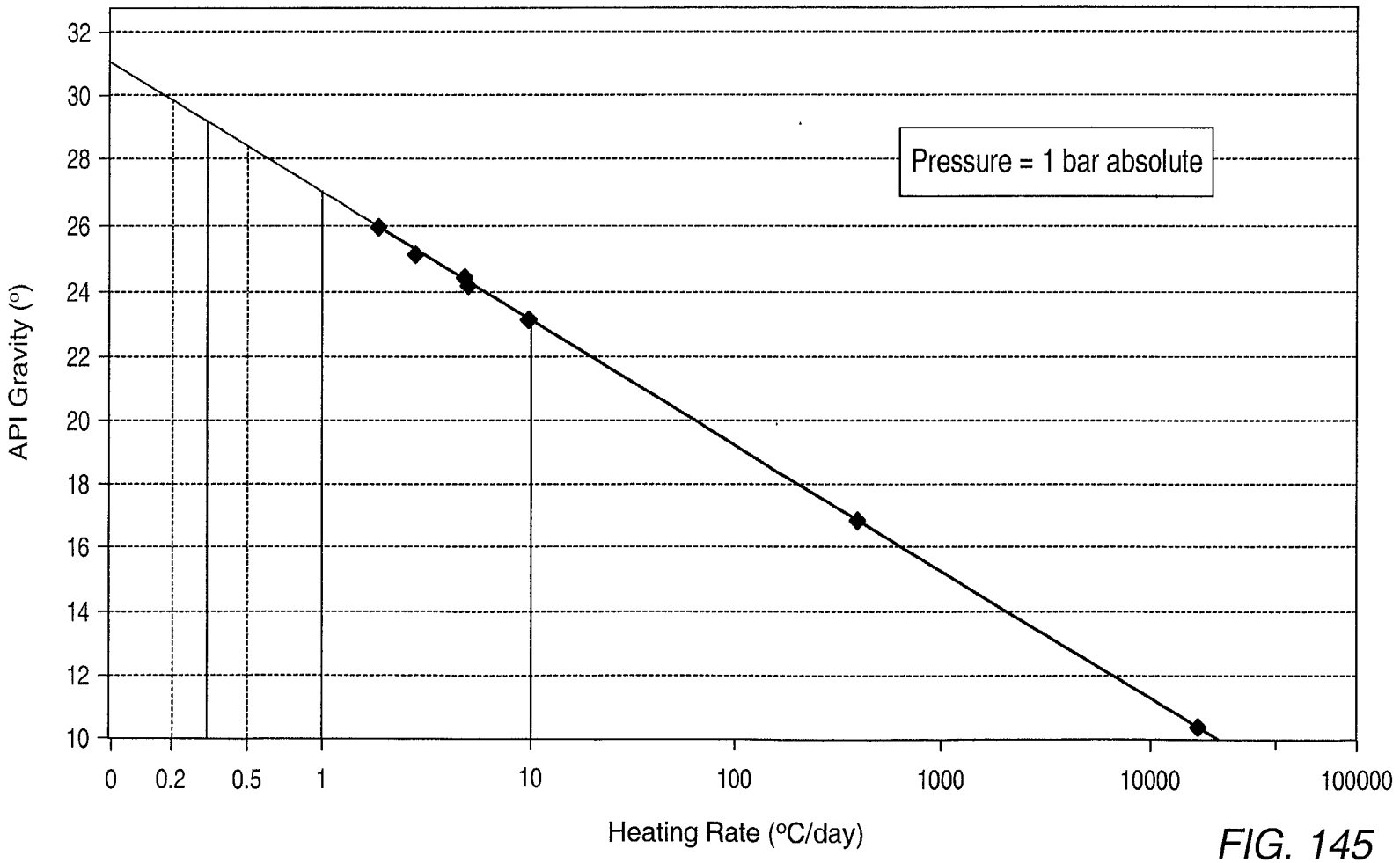
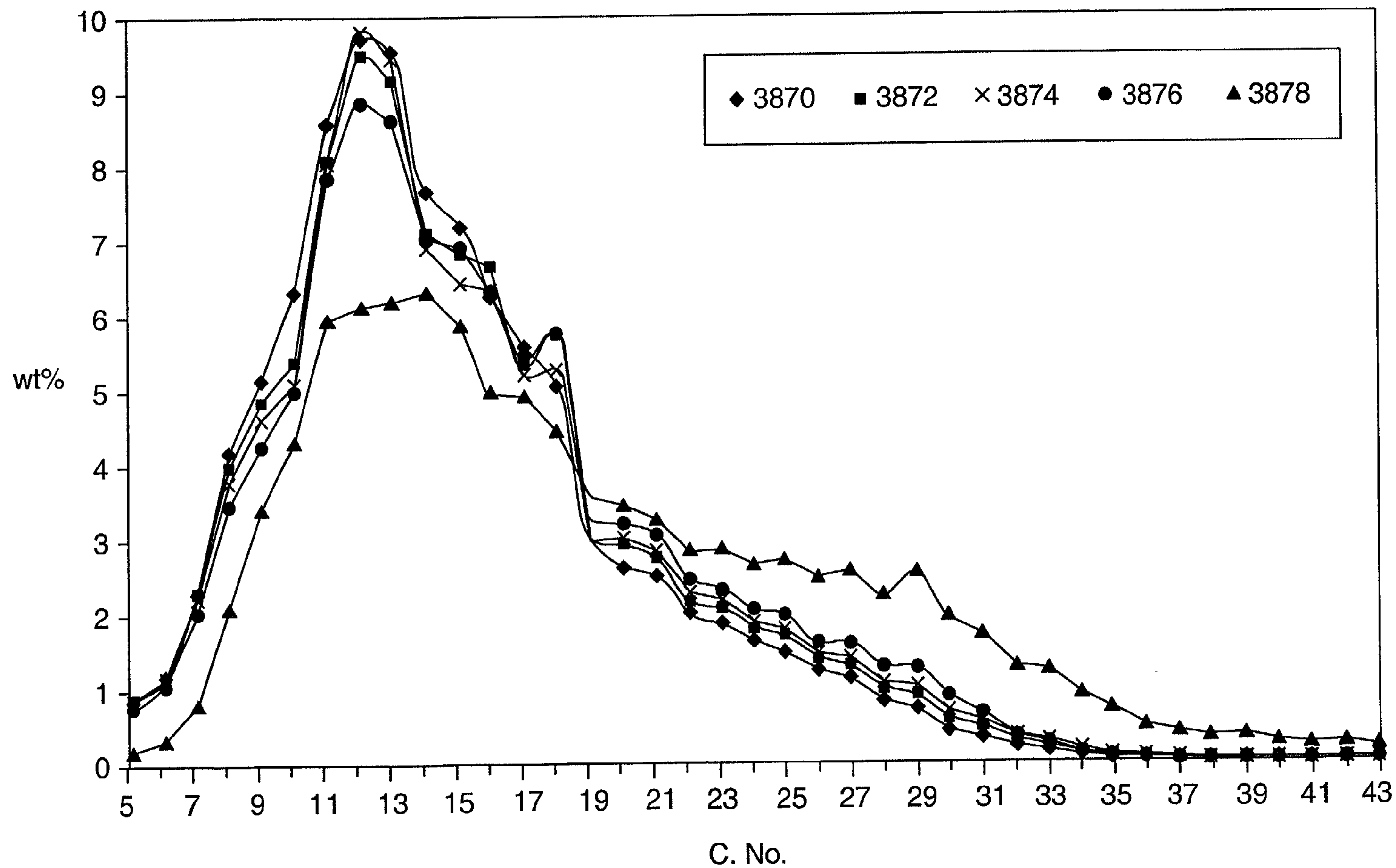

API Gravity (°)
32
30
28
26
24
22
20
18
16
14
12
10
Pressure = 1 bar absolute
0
0.2
0.5
1
10
100
1000
10000
100000
Heating Rate (°C/day)

FIG. 145



10
9
8
7
6
5
4
3
2
1
0
wt%
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
C. No.
3870
3872
3874
3876
3878

FIG. 146

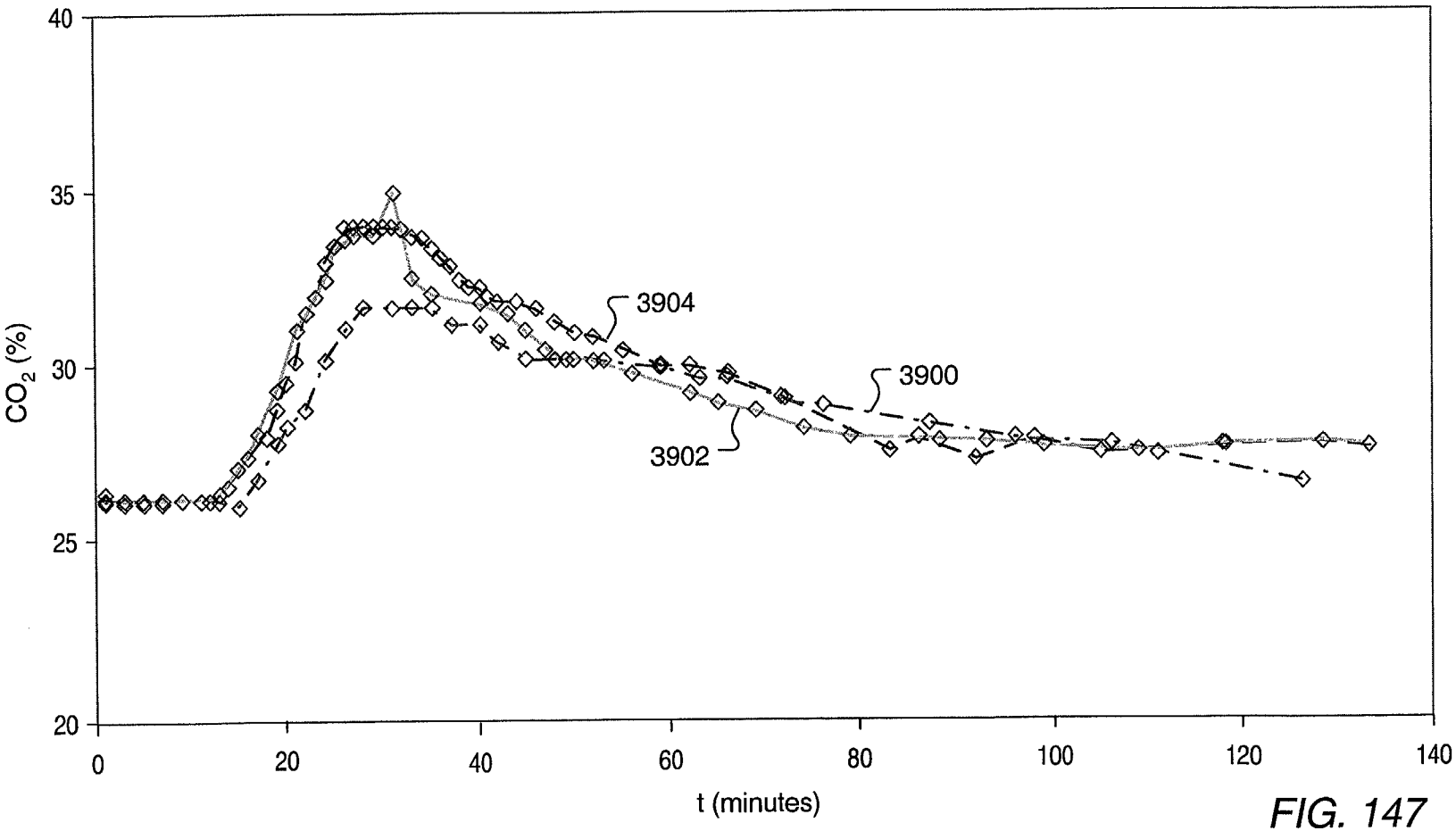

40
35
30
25
20
CO_2 (%)
0
20
40
60
80
100
120
140
t (minutes)
3904
3900
3902

FIG. 147

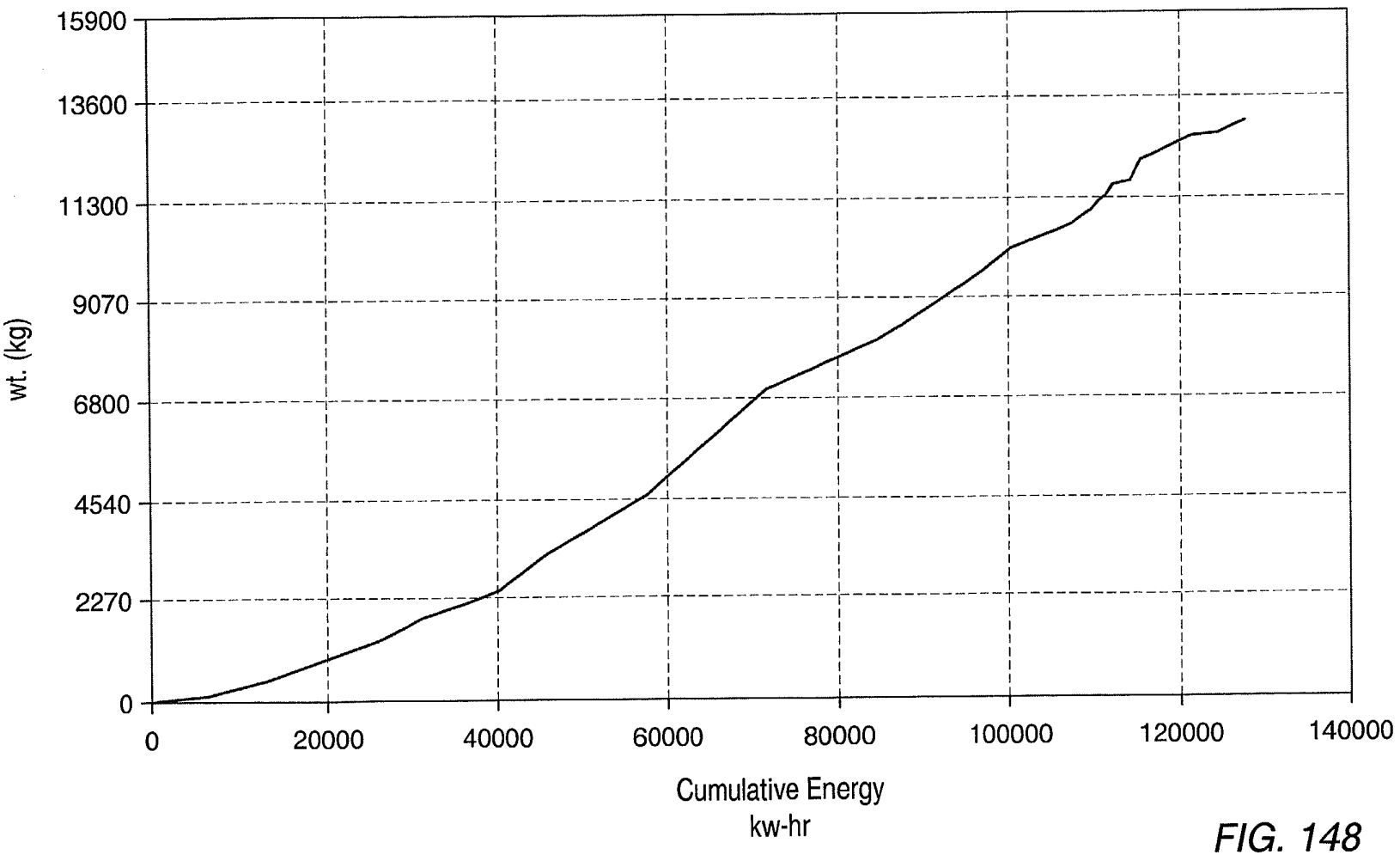

15900
13600
11300
9070
6800
4540
2270
0
wt. (kg)
0
20000
40000
60000
80000
100000
120000
140000
Cumulative Energy
kw-hr

FIG. 148

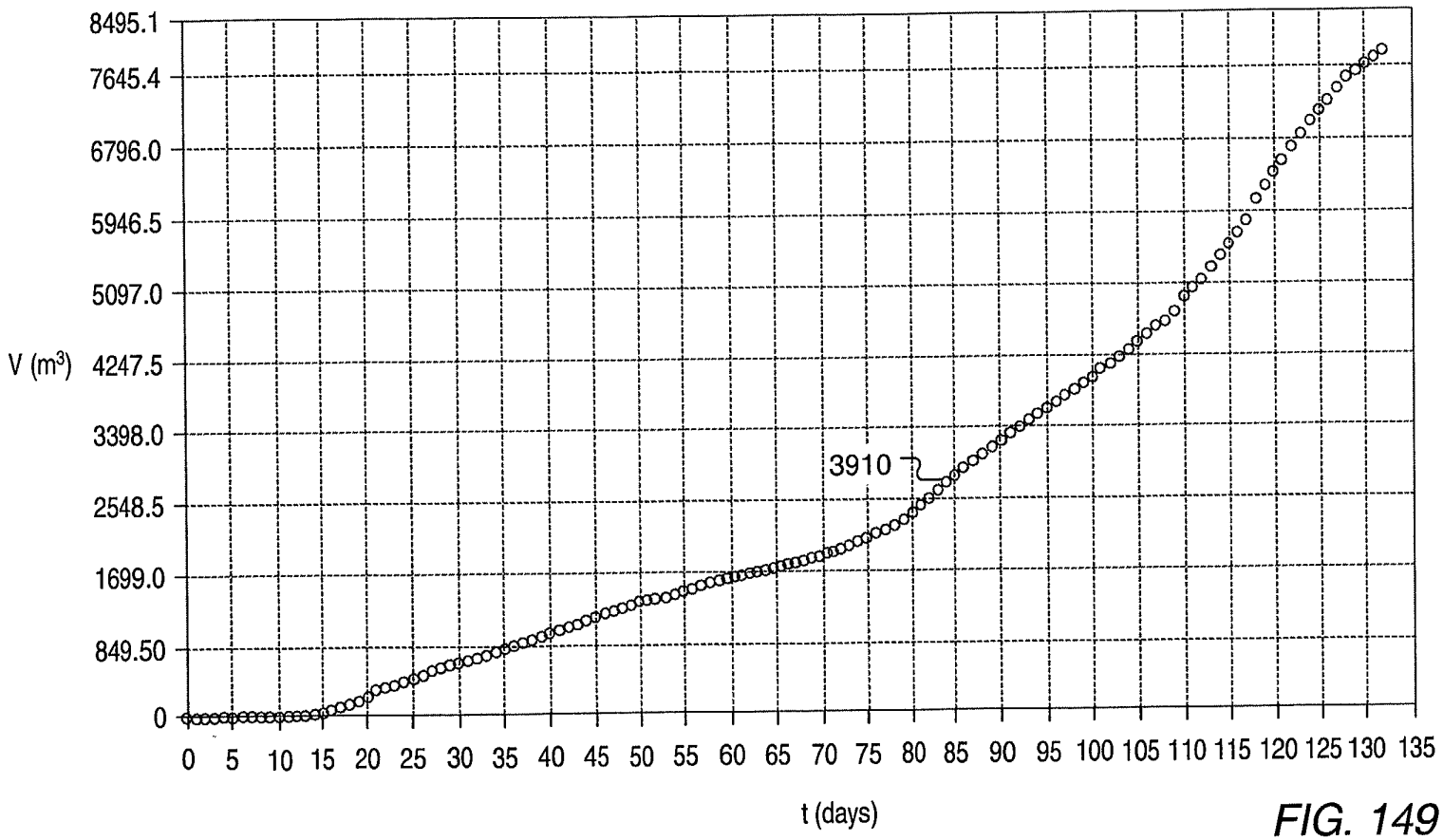

8495.1
7645.4
6796.0
5946.5
5097.0
V (m³) 4247.5
3398.0
2548.5
1699.0
849.50
0
3910
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135
t (days)

FIG. 149

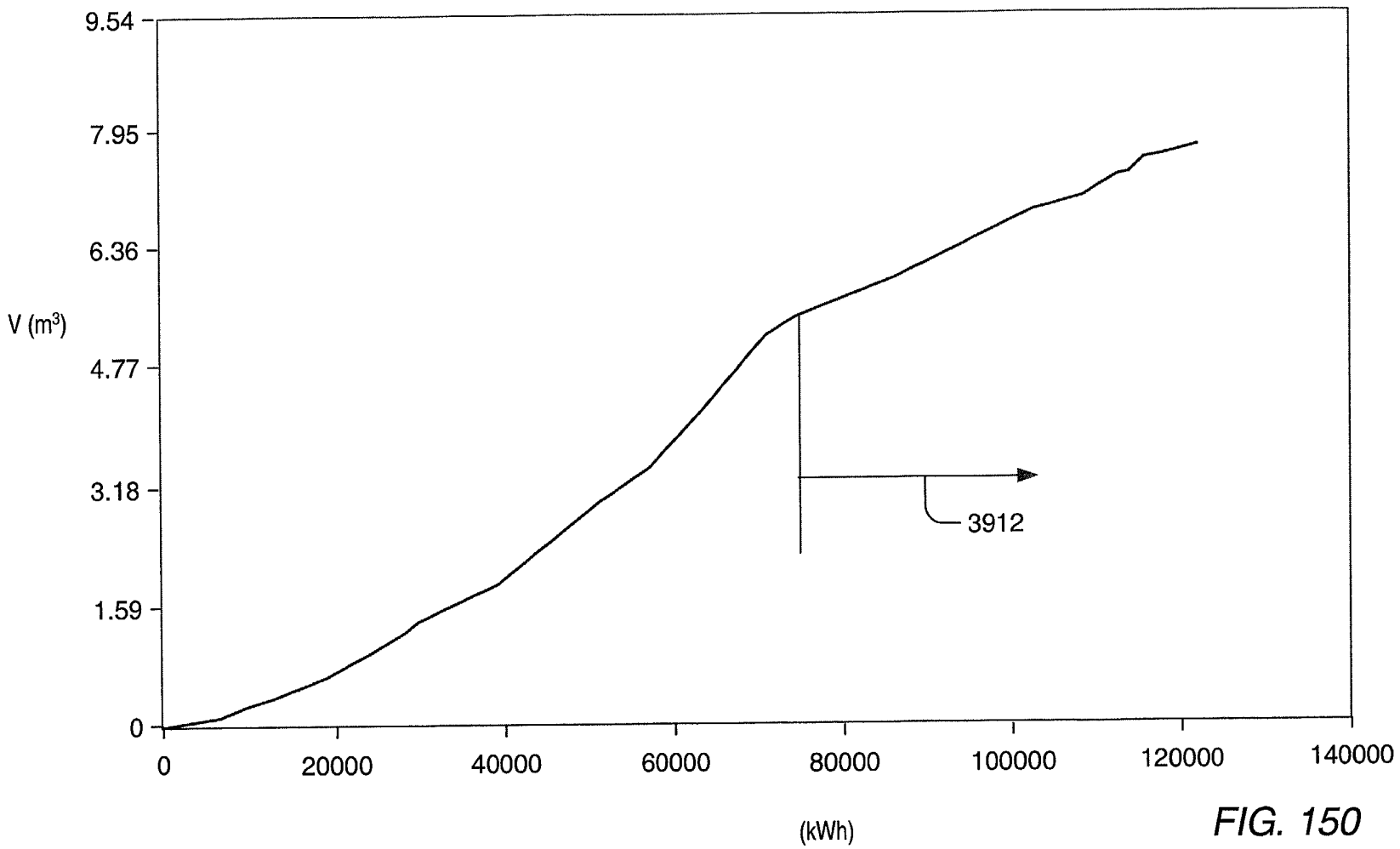

9.54
7.95
6.36
4.77
3.18
1.59
0
V (m³)
0
20000
40000
60000
80000
100000
120000
140000
(kWh)
3912

FIG. 150

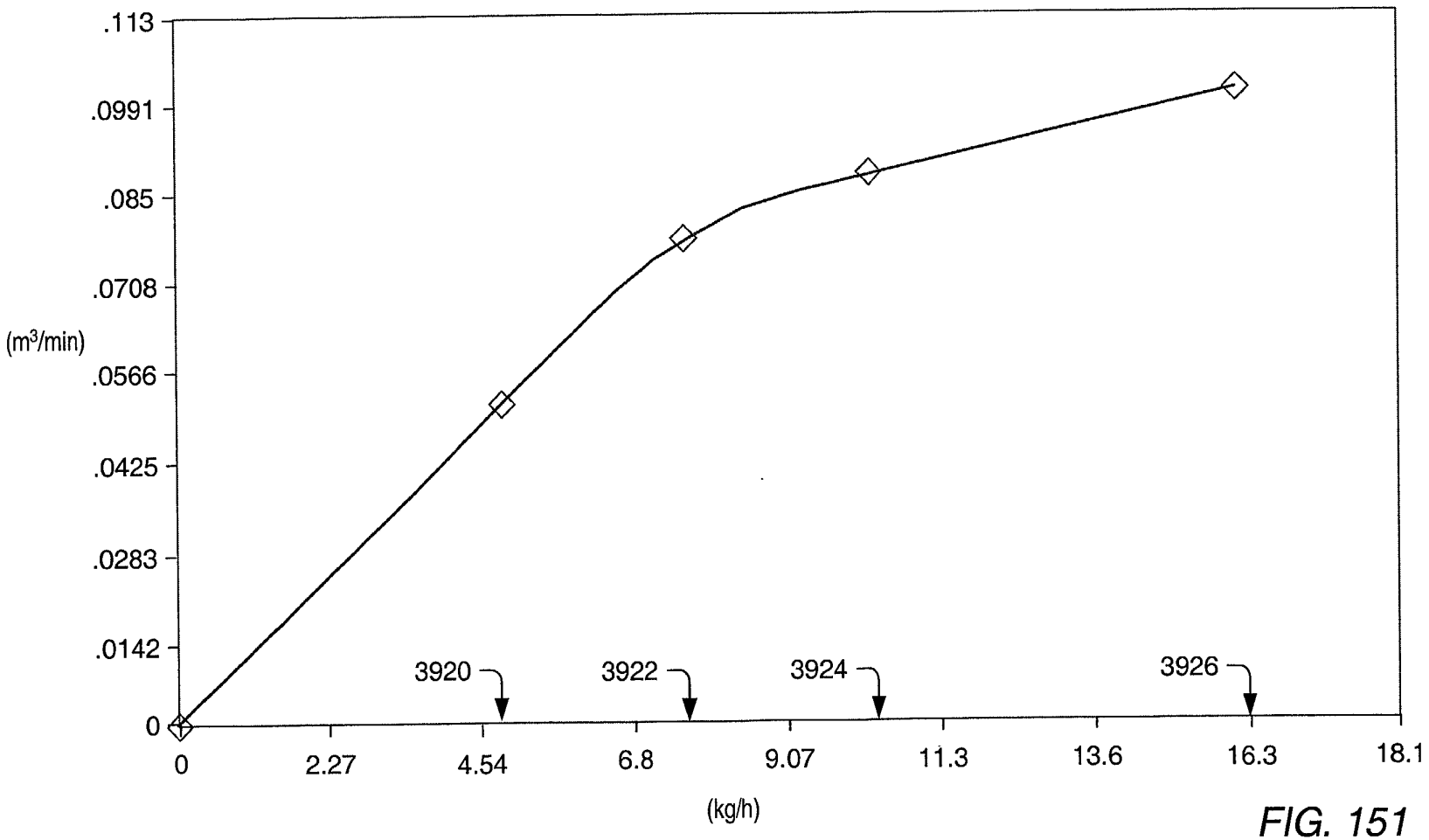

.113
.0991
.085
.0708
(m³/min)
.0566
.0425
.0283
.0142
0
3920
3922
3924
3926
0
2.27
4.54
6.8
9.07
11.3
13.6
16.3
18.1
(kg/h)

FIG. 151

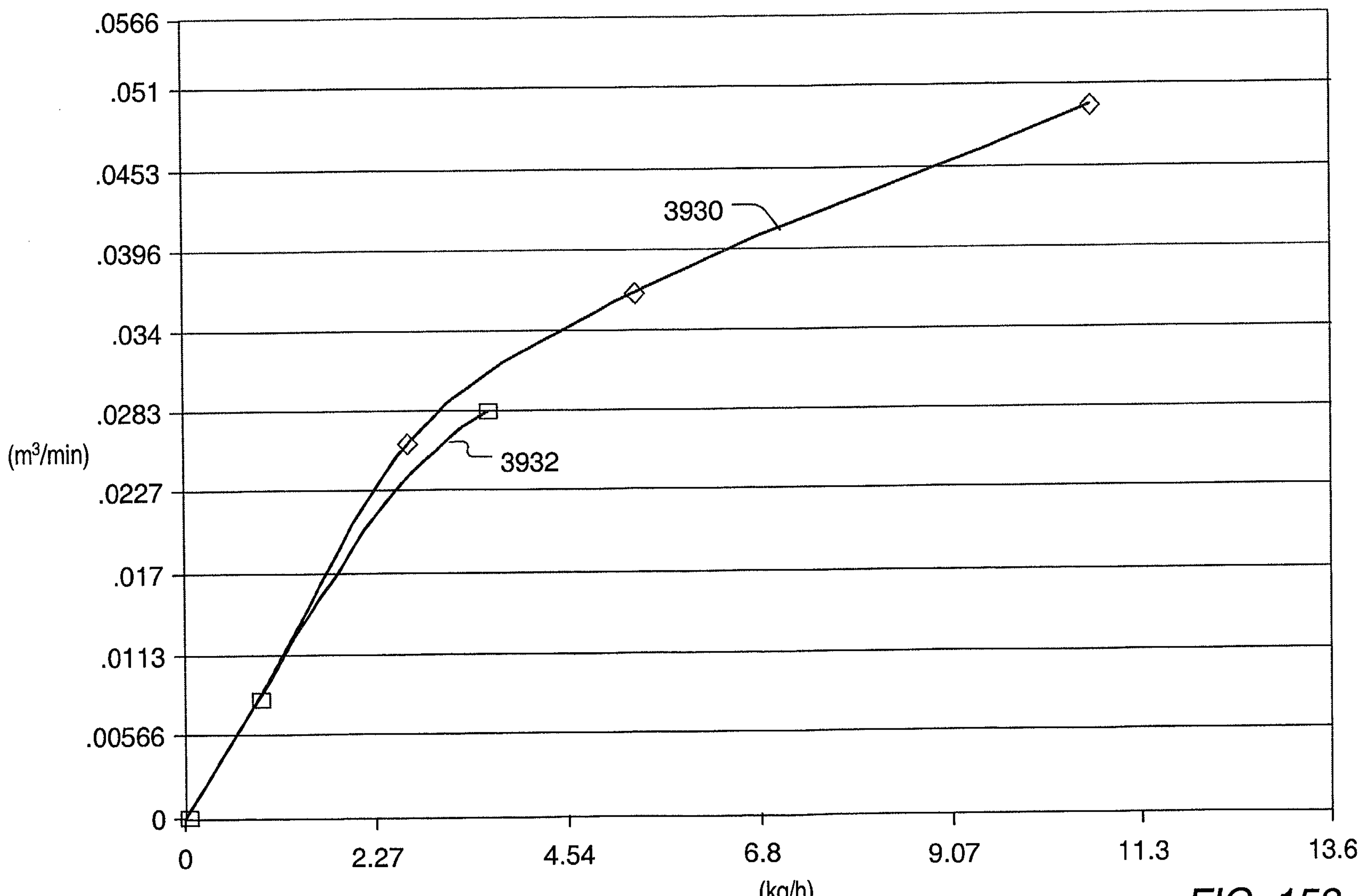

.0566
.051
.0453
.0396
.034
.0283
.0227
.017
.0113
.00566
0
(m^3/min)
3930
3932
0
2.27
4.54
6.8
9.07
11.3
13.6
(kg/h)

FIG. 152

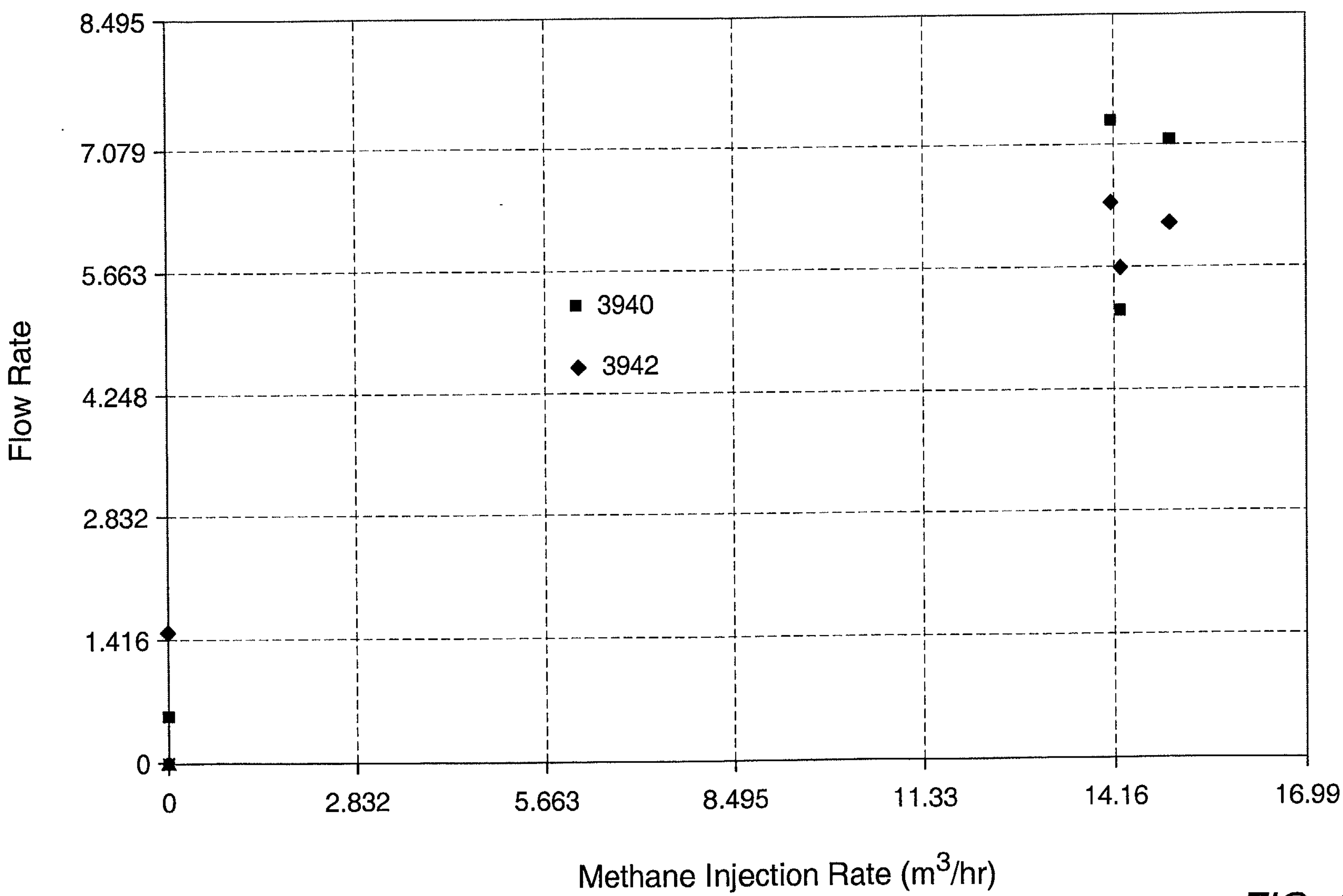

Flow Rate
8.495
7.079
5.663
4.248
2.832
1.416
0
0
2.832
5.663
8.495
11.33
14.16
16.99
3940
3942
Methane Injection Rate (m3/hr)

FIG. 153

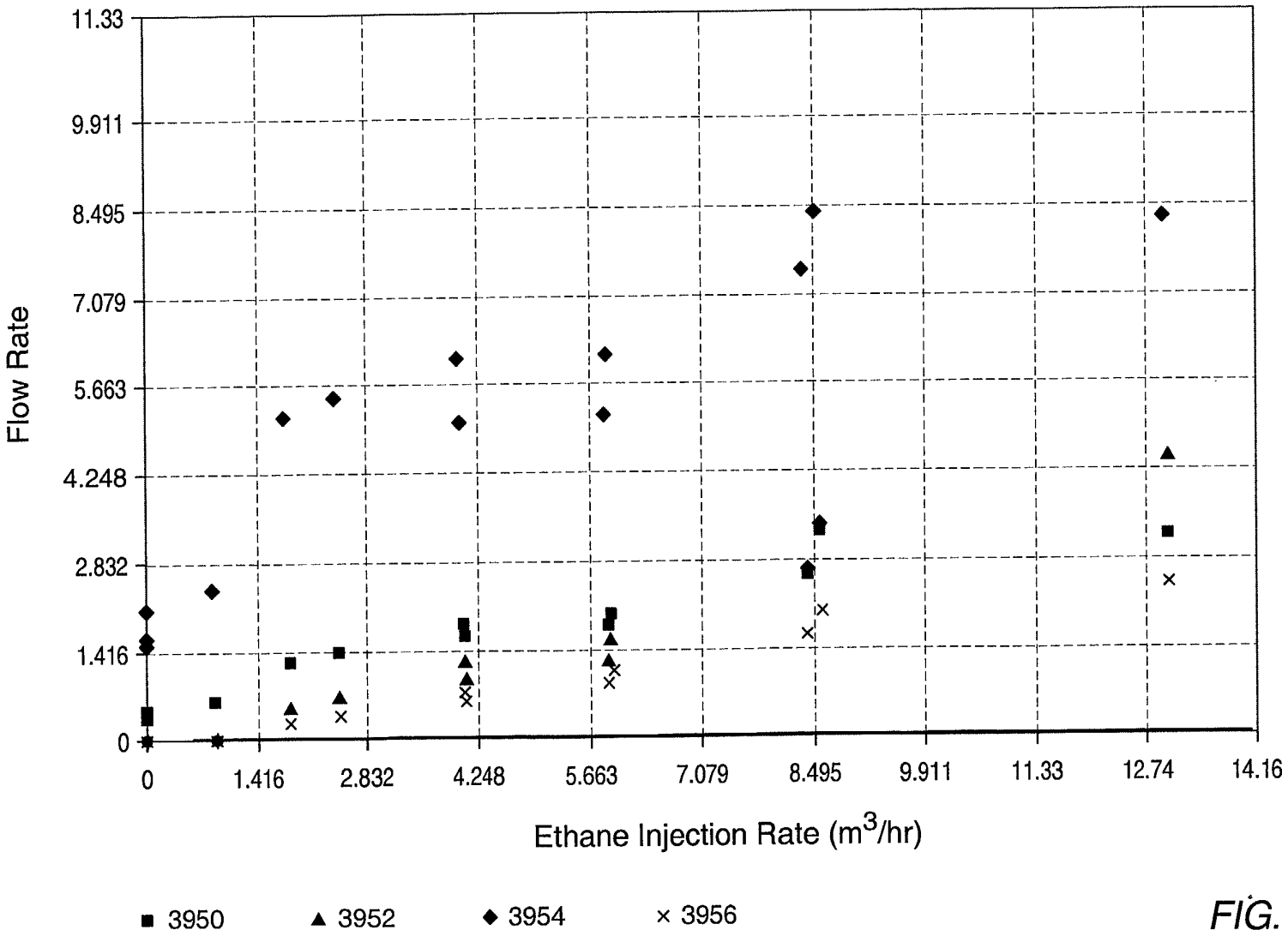

11.33
9.911
8.495
7.079
5.663
4.248
2.832
1.416
0
Flow Rate
0
1.416
2.832
4.248
5.663
7.079
8.495
9.911
11.33
12.74
14.16
Ethane Injection Rate (m3/hr)
3950
3952
3954
3956

FIG. 154

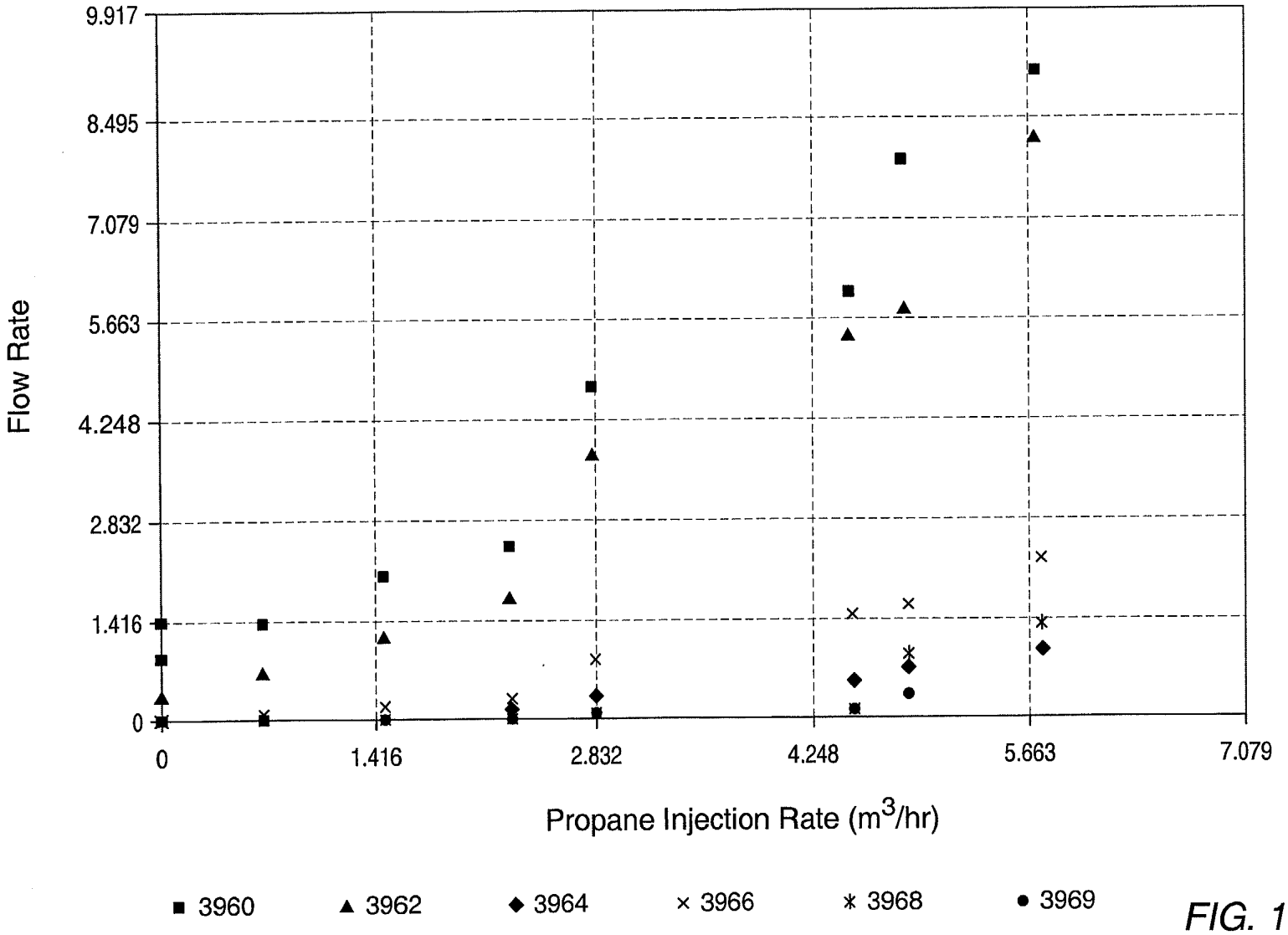

9.917
8.495
7.079
5.663
4.248
2.832
1.416
0
Flow Rate
0
1.416
2.832
4.248
5.663
7.079
Propane Injection Rate (m3/hr)
3960
3962
3964
3966
3968
3969

FIG. 155

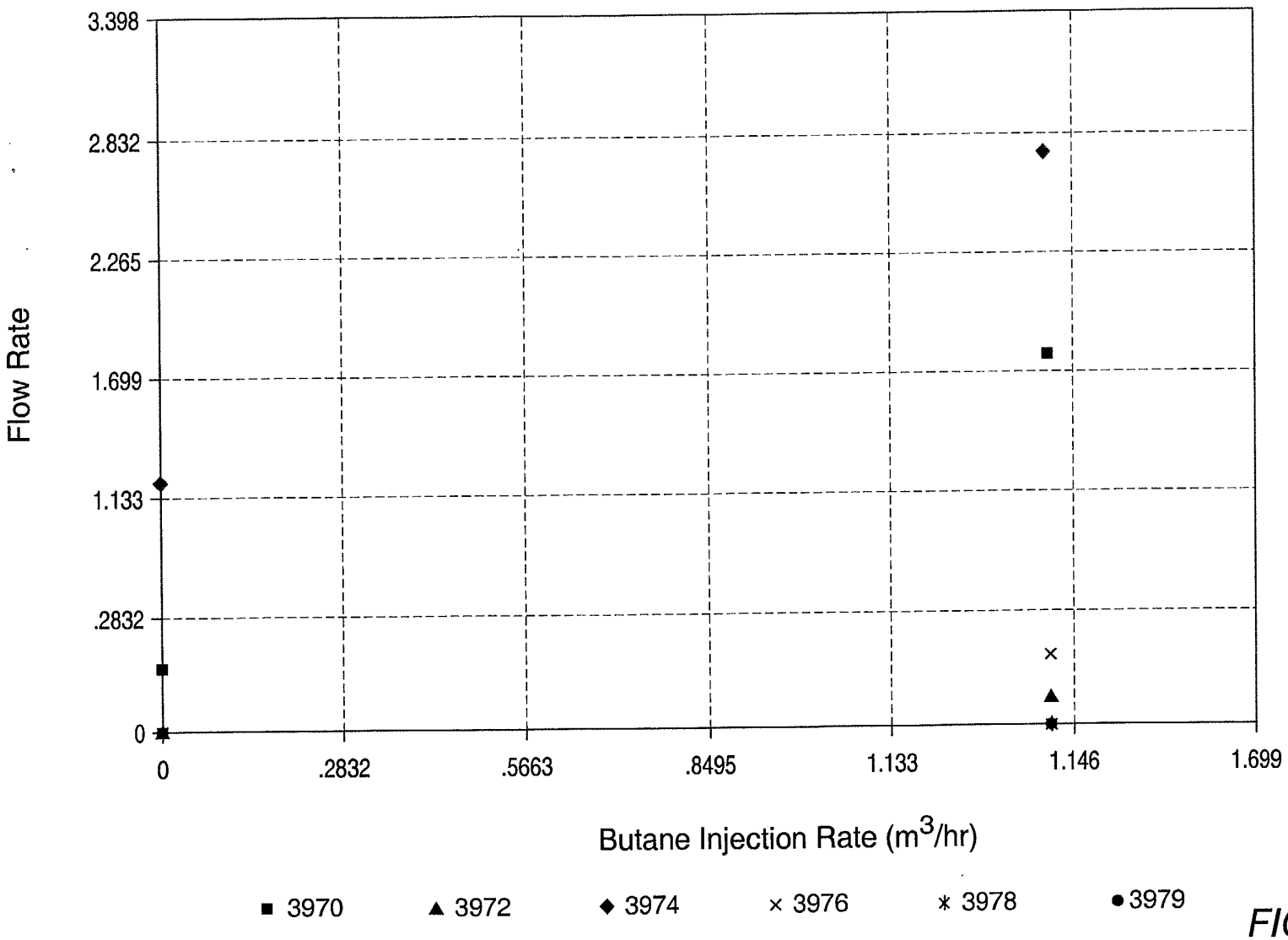


FIG. 156

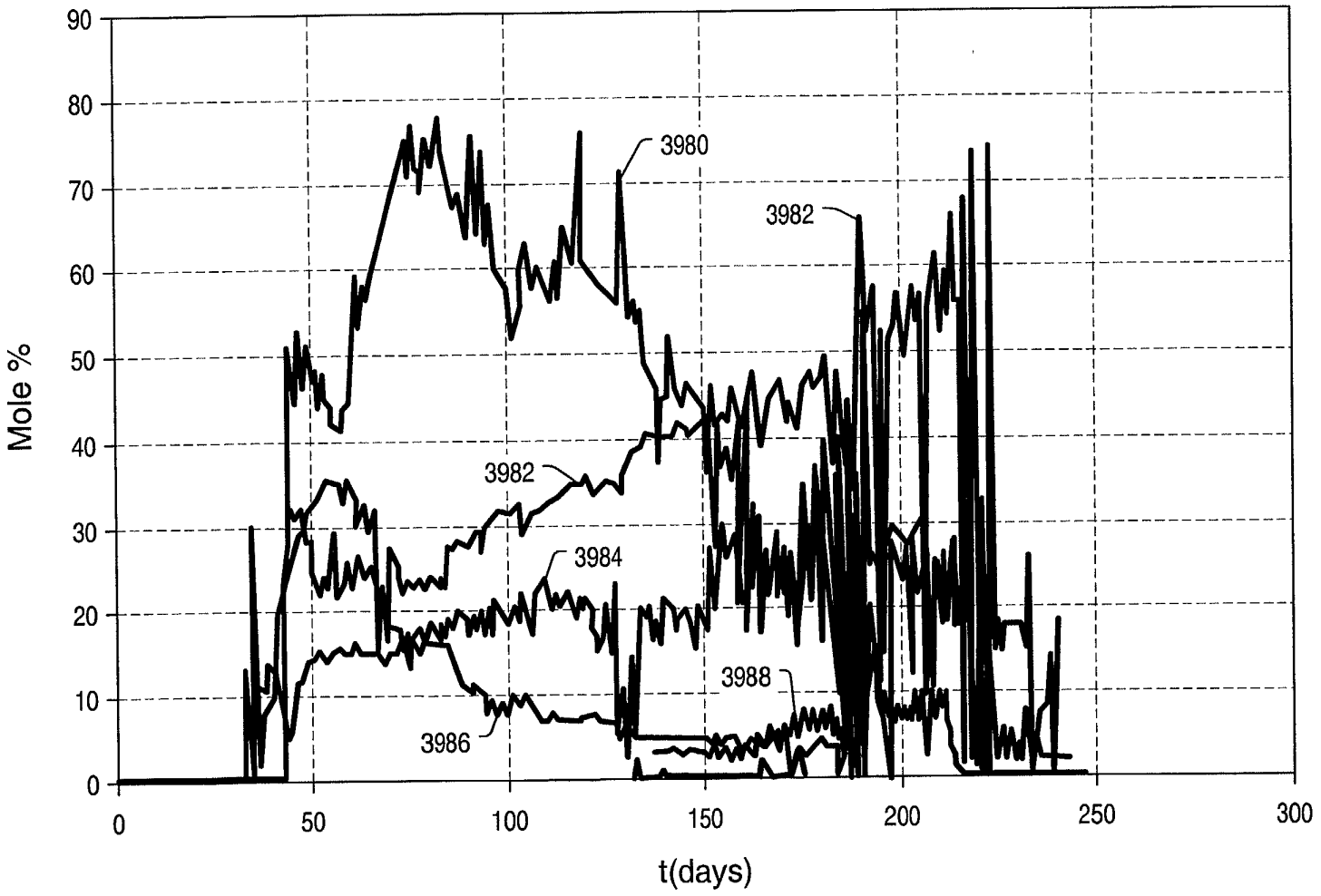

90
80
70
60
50
40
30
20
10
0
Mole %
0
50
100
150
200
250
300
t(days)
3980
3982
3982
3984
3988
3986

FIG. 157

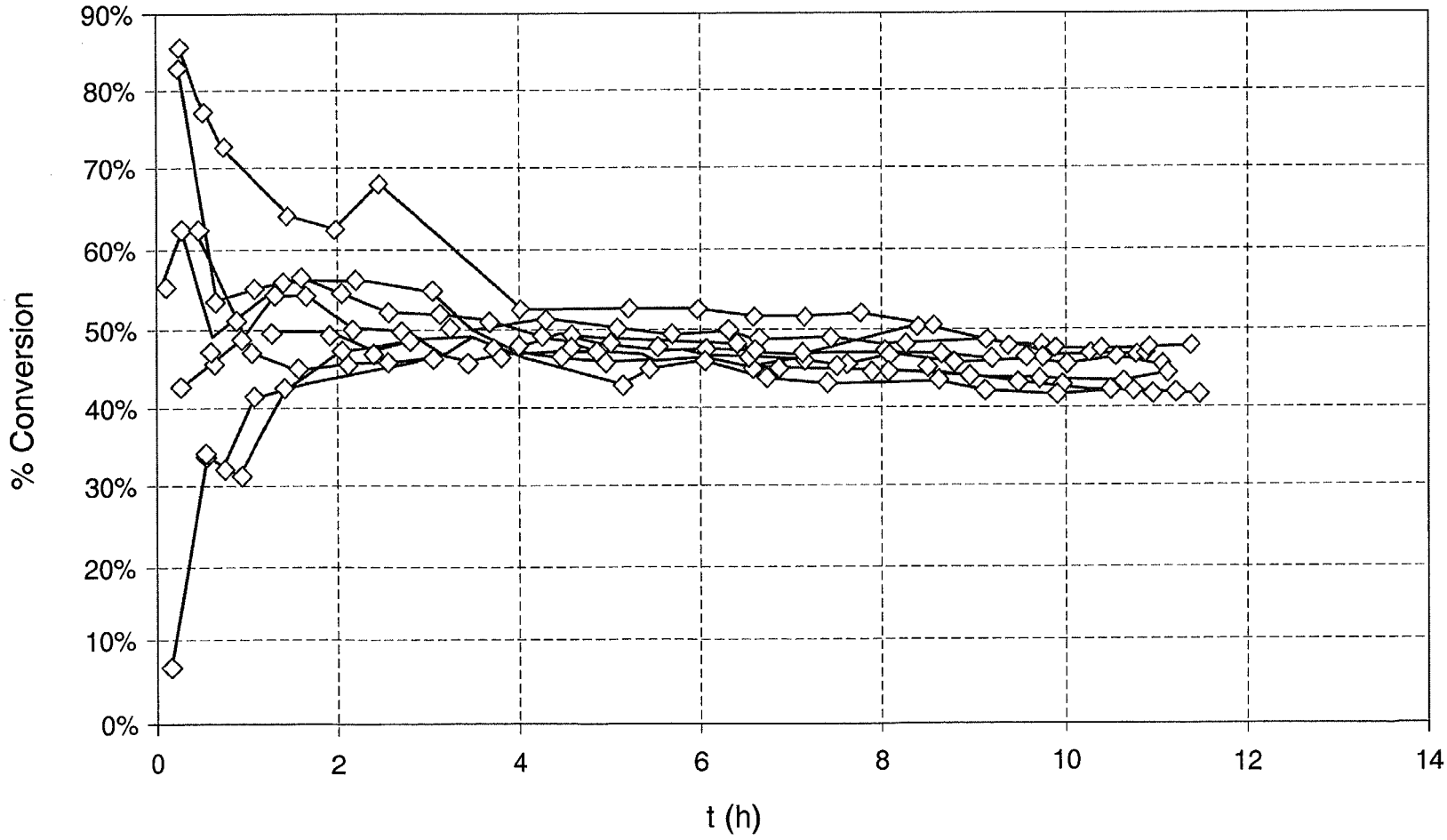


FIG. 158

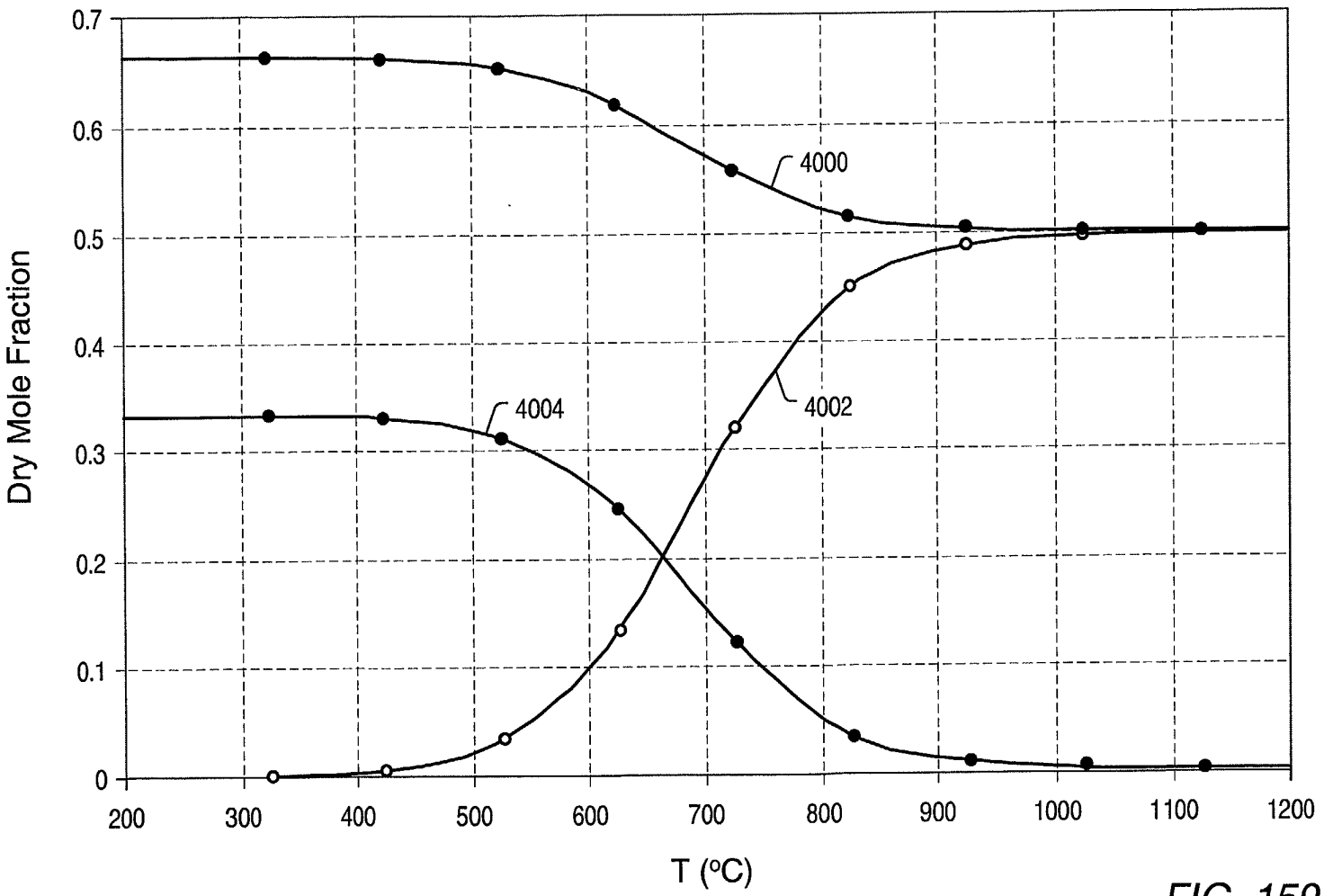

0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Dry Mole Fraction
4000
4004
4002
200
300
400
500
600
700
800
900
1000
1100
1200
T (°C)

FIG. 159

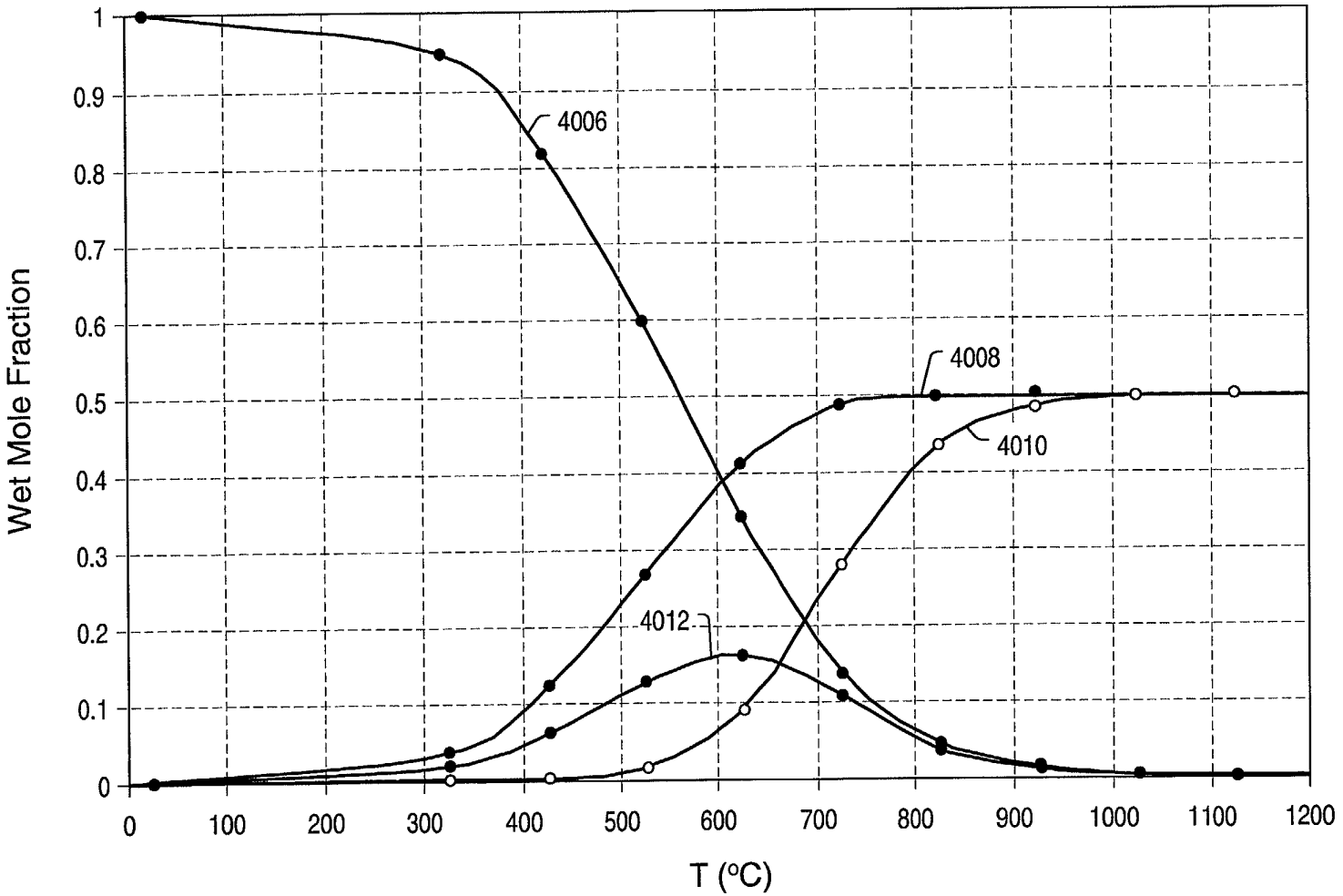

Wet Mole Fraction
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
T (°C)
4006
4008
4010
4012

FIG. 160

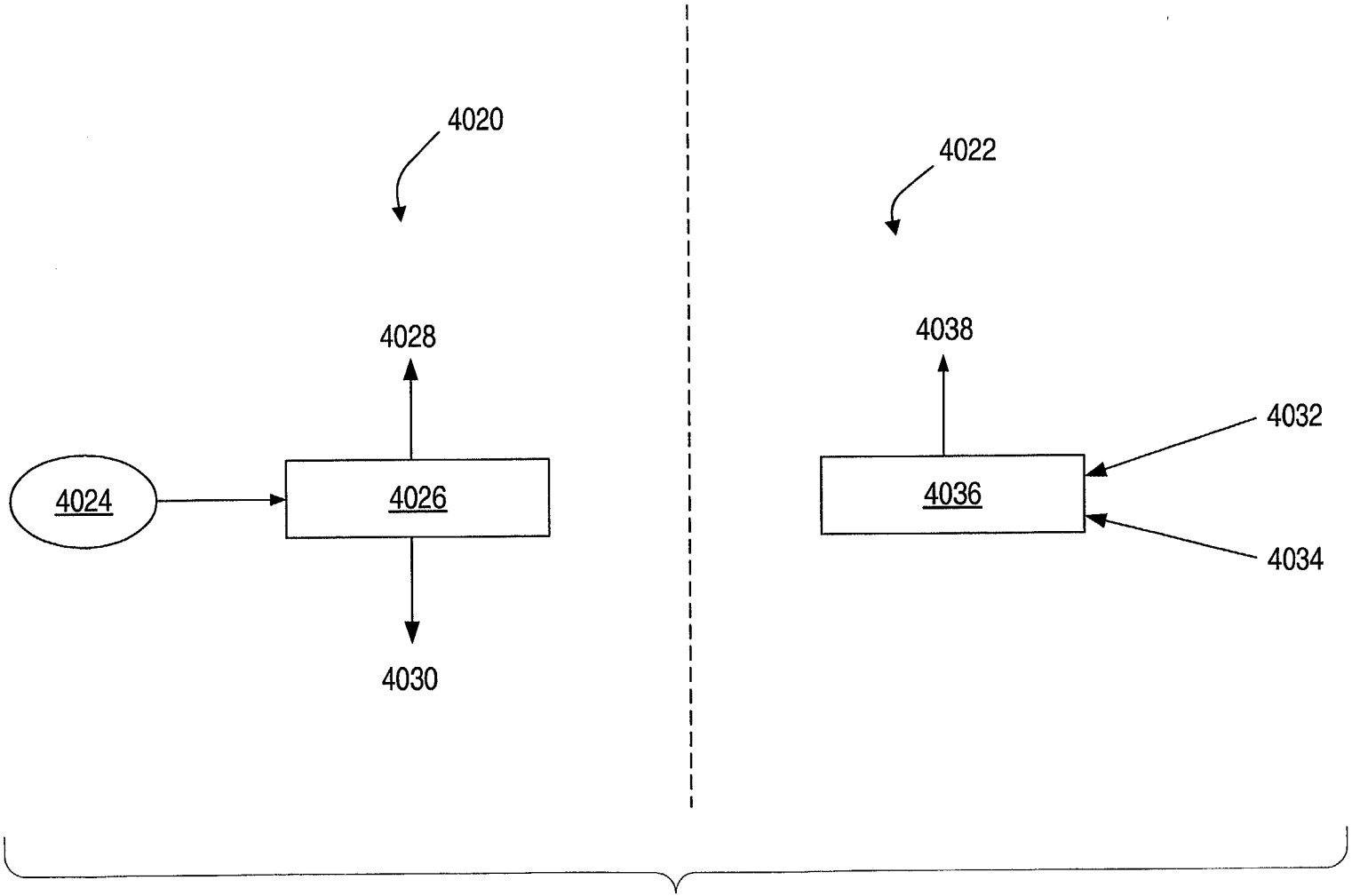


FIG. 161

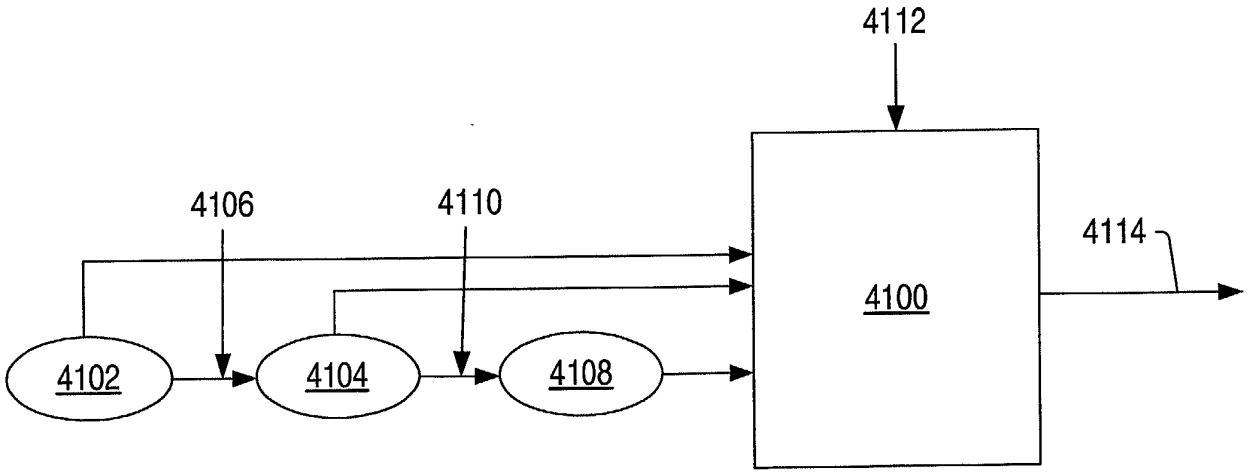


FIG. 162

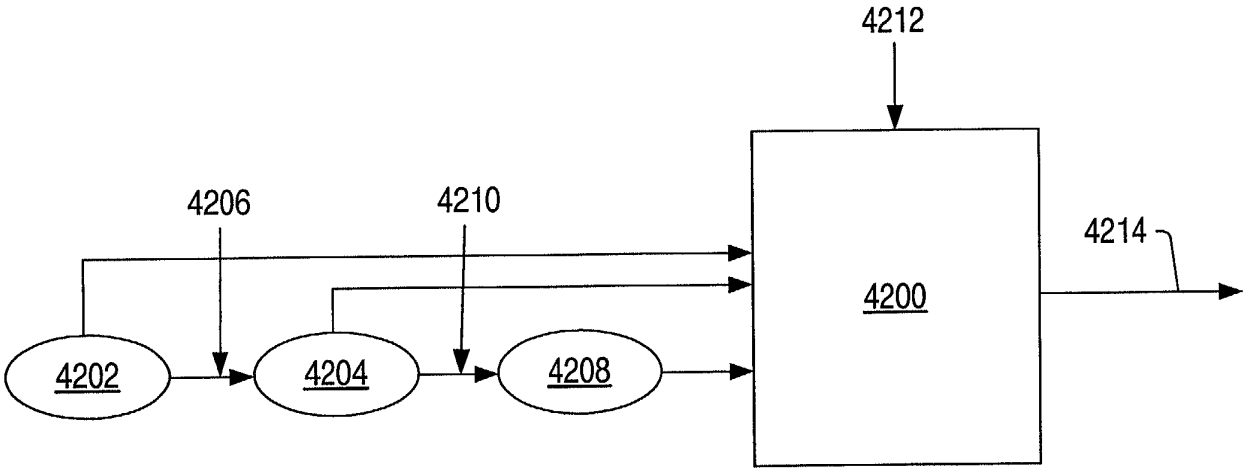


FIG. 163

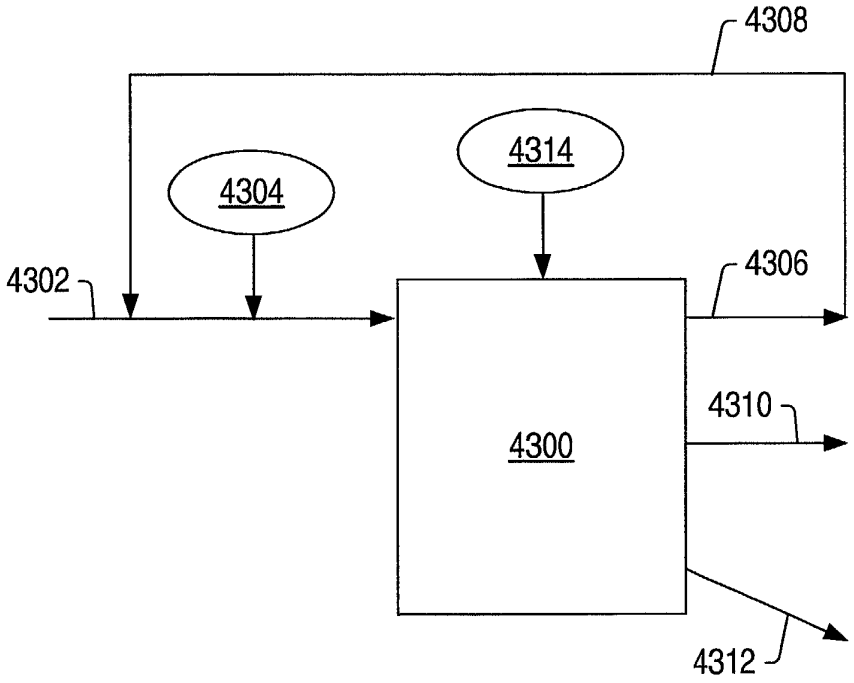


FIG. 164

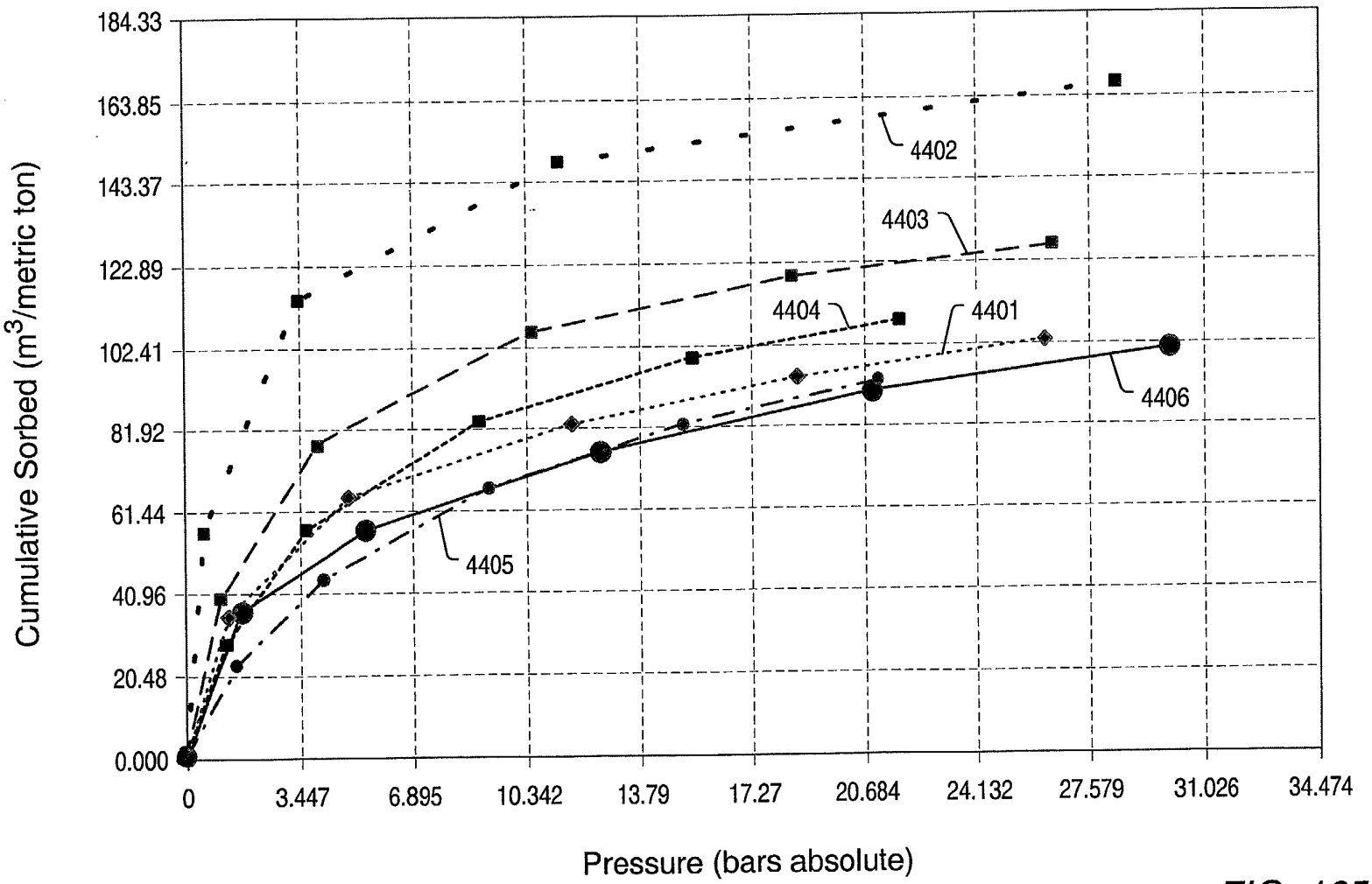

184.33
163.85
143.37
122.89
102.41
81.92
61.44
40.96
20.48
0.000
Cumulative Sorbed (m3/metric ton)
0
3.447
6.895
10.342
13.79
17.27
20.684
24.132
27.579
31.026
34.474
Pressure (bars absolute)
4402
4403
4404
4401
4406
4405

FIG. 165

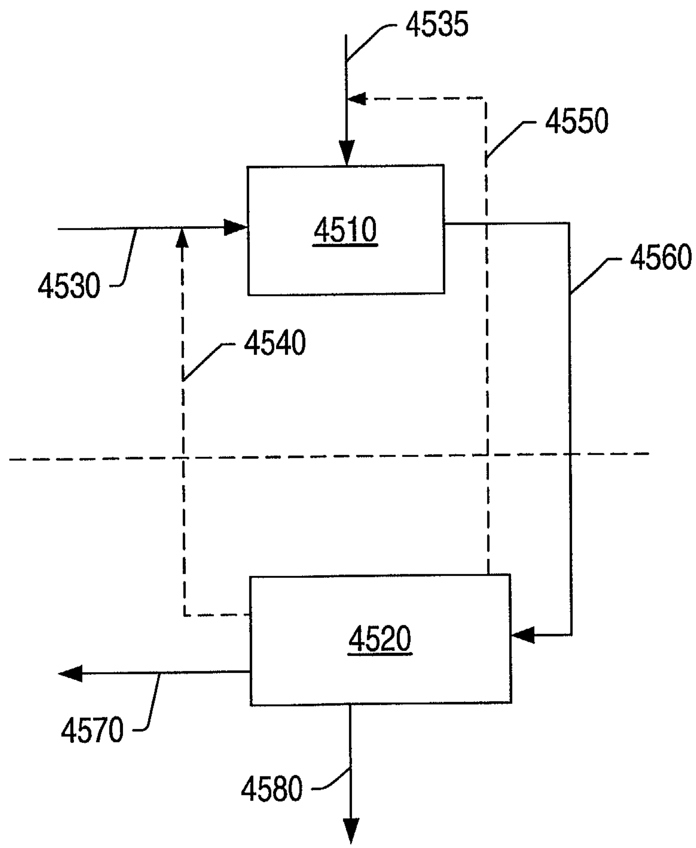


FIG. 166

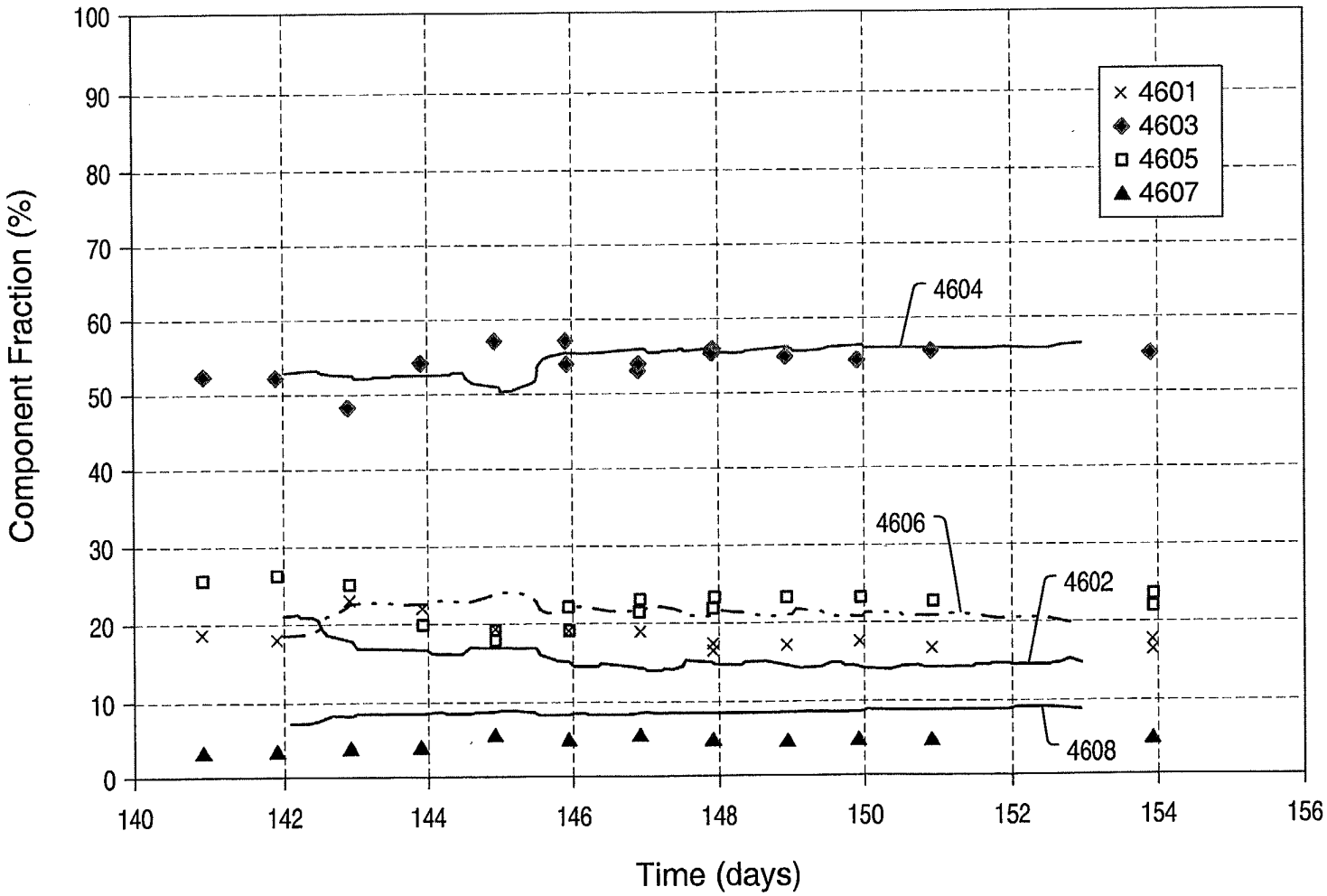

Component Fraction (%)
100
90
80
70
60
50
40
30
20
10
0
140
142
144
146
148
150
152
154
156
Time (days)
× 4601
◆ 4603
□ 4605
▲ 4607
4604
4606
4602
4608

FIG. 167

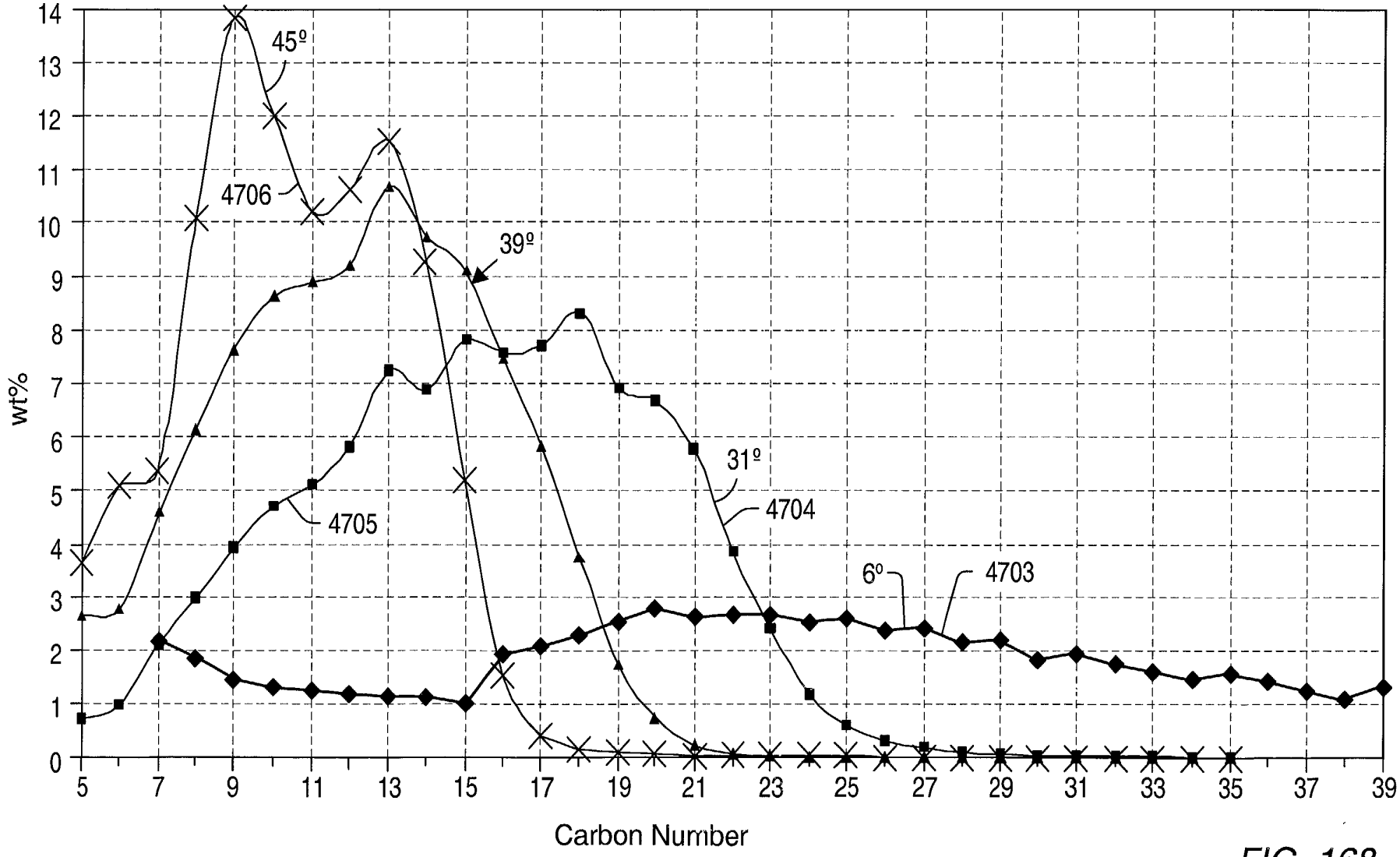

45º
4706
39º
31º
4704
4705
6º
4703
wt%
Carbon Number
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39

FIG. 168

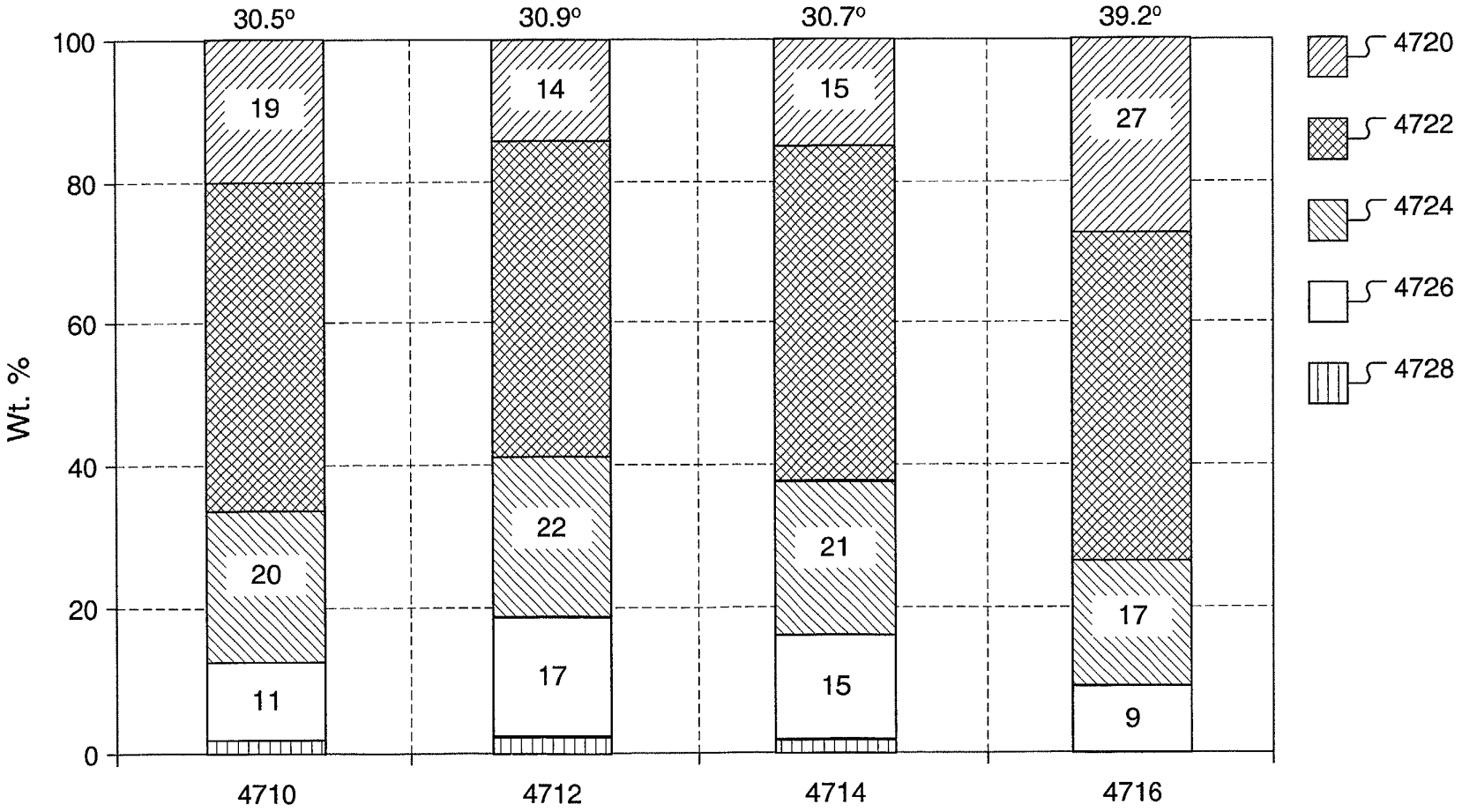

30.5°
30.9°
30.7°
39.2°
100
80
60
40
20
0
Wt. %
19
20
11
14
22
17
15
21
15
27
17
9
4710
4712
4714
4716
4720
4722
4724
4726
4728

FIG. 169

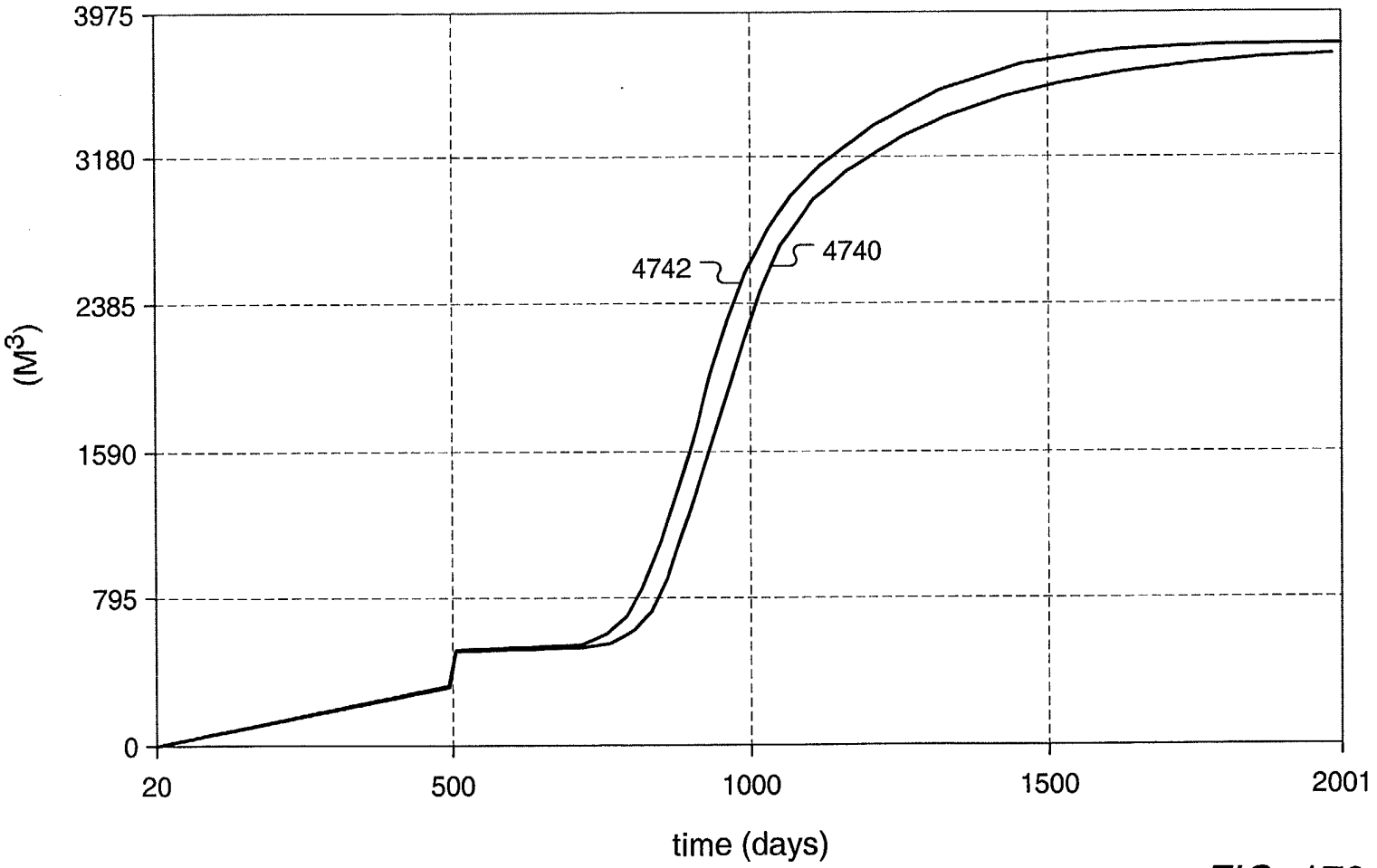

3975
3180
2385
1590
795
0
(M3)
4742
4740
20
500
1000
1500
2001
time (days)

FIG. 170

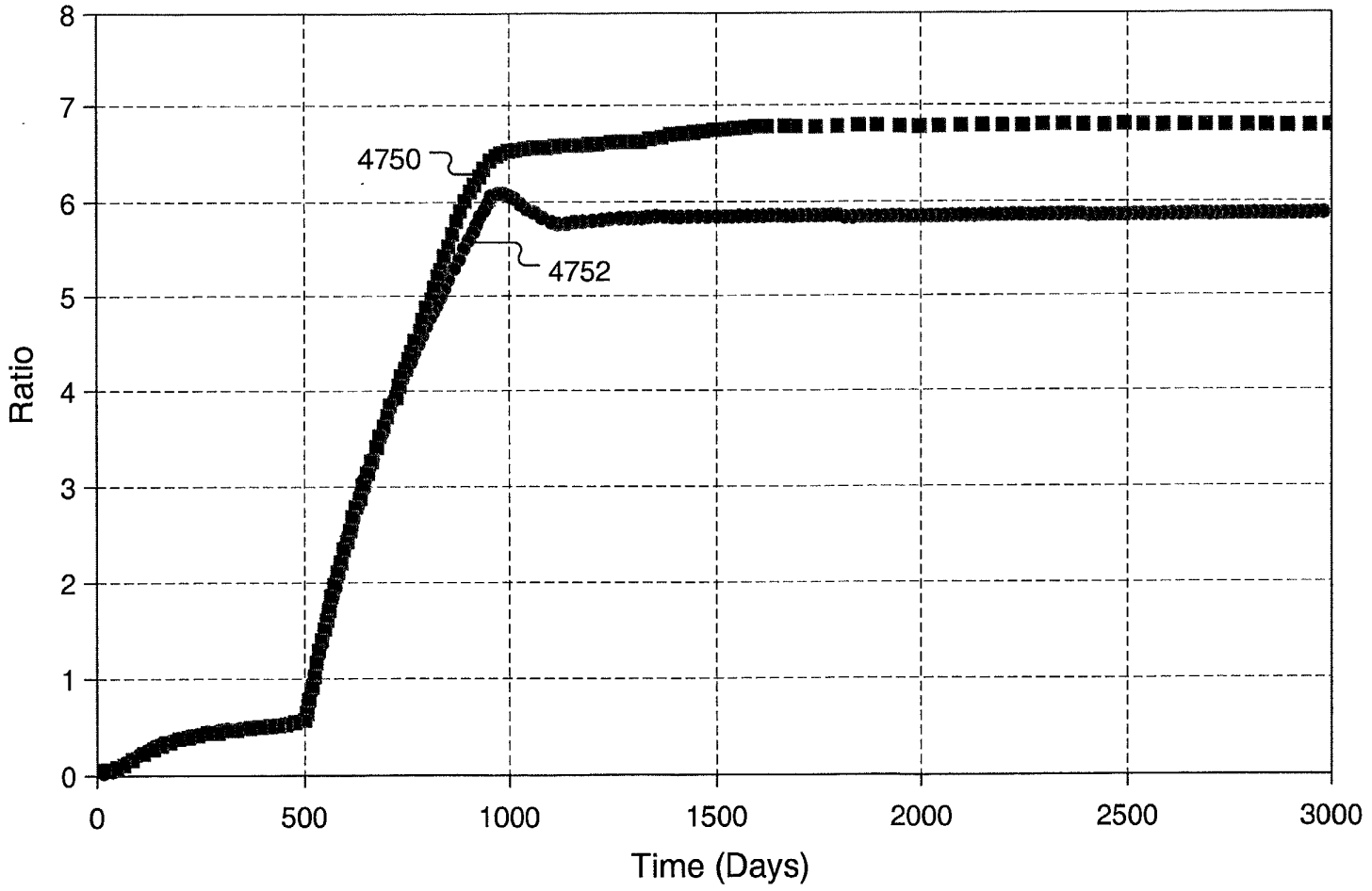

8
7
6
5
4
3
2
1
0
Ratio
4750
4752
0
500
1000
1500
2000
2500
3000
Time (Days)

FIG. 171

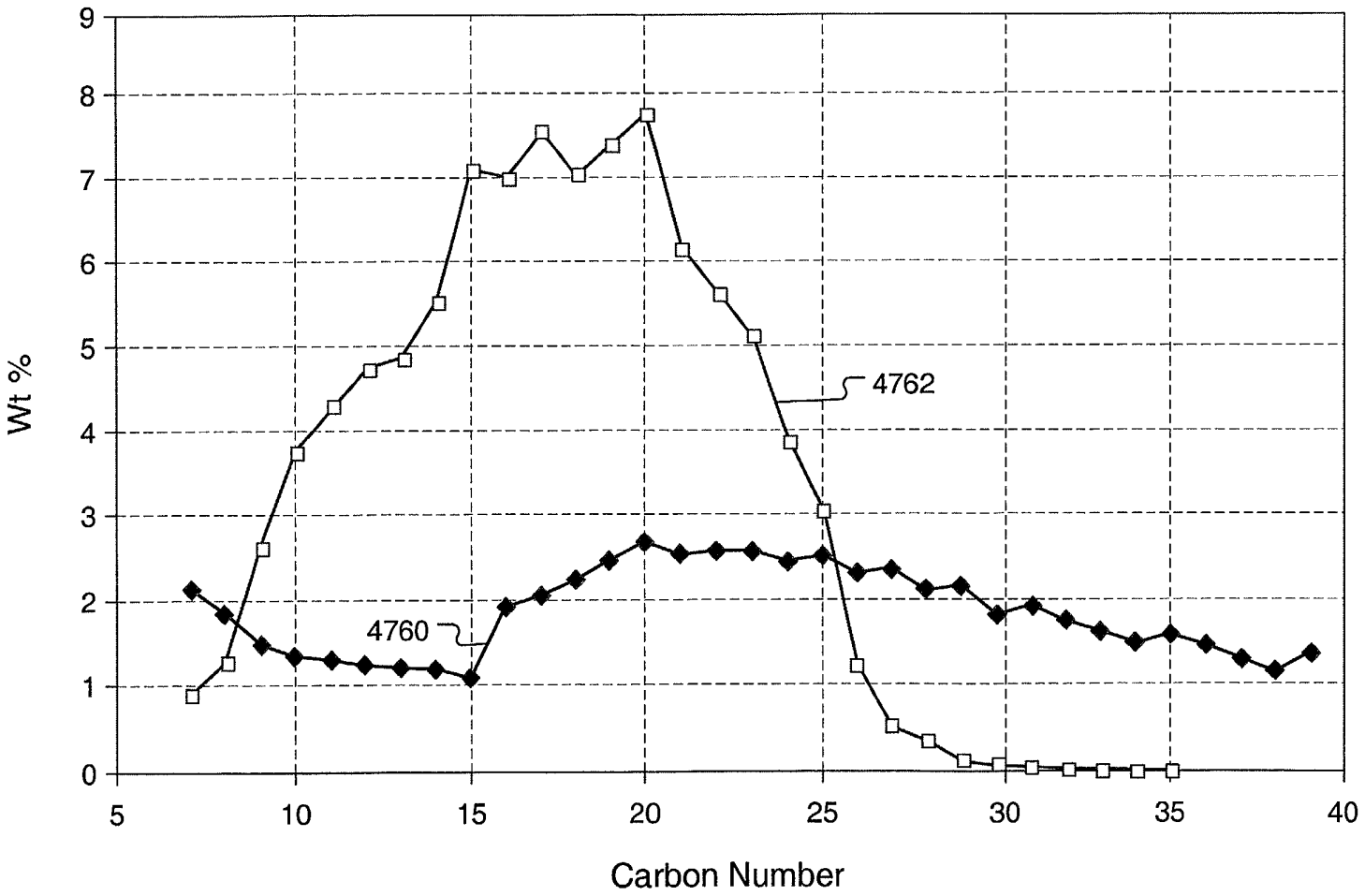


FIG. 172

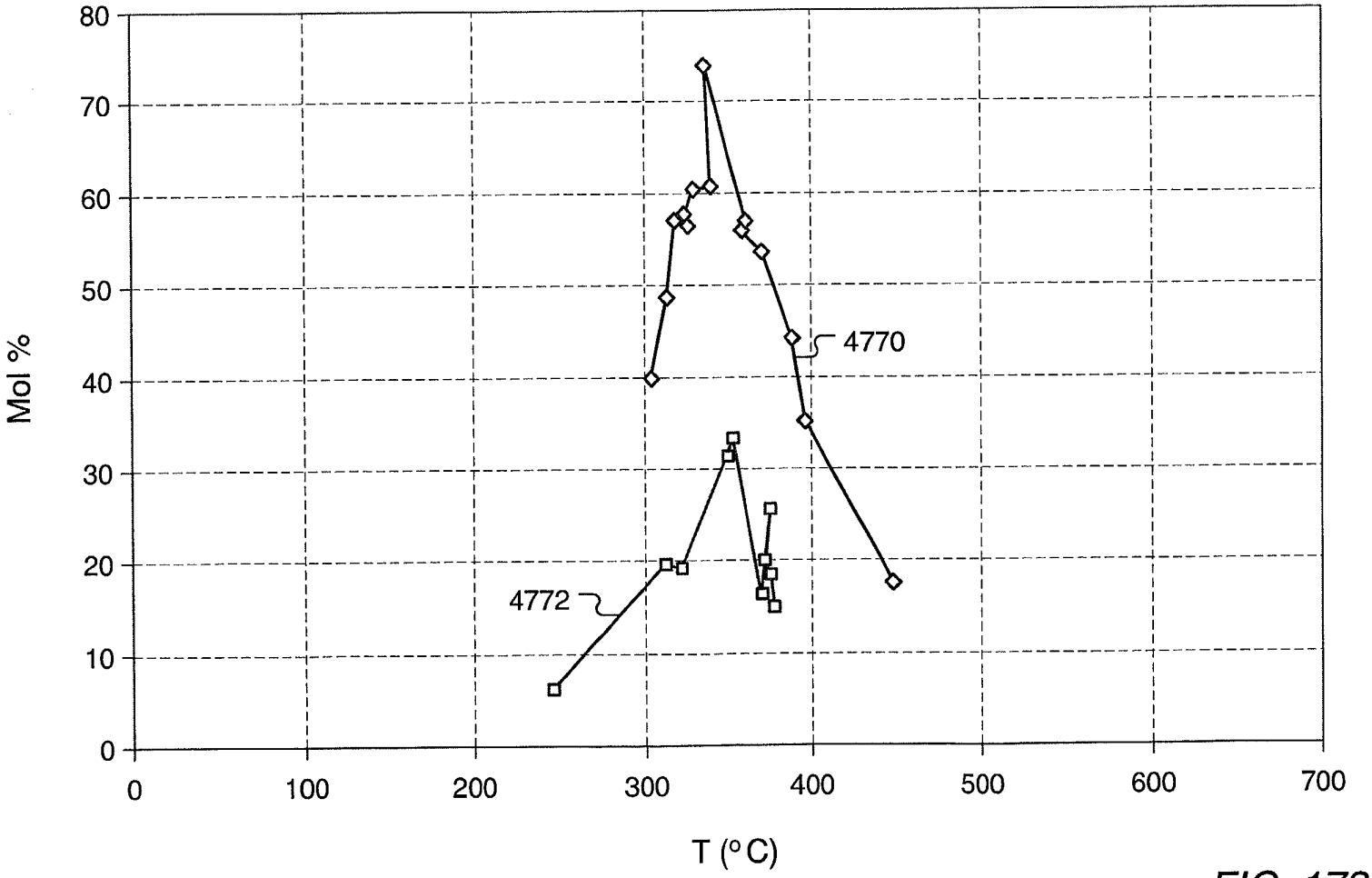

80
70
60
50
40
30
20
10
0
Mol %
0
100
200
300
400
500
600
700
T (°C)
4770
4772

FIG. 173

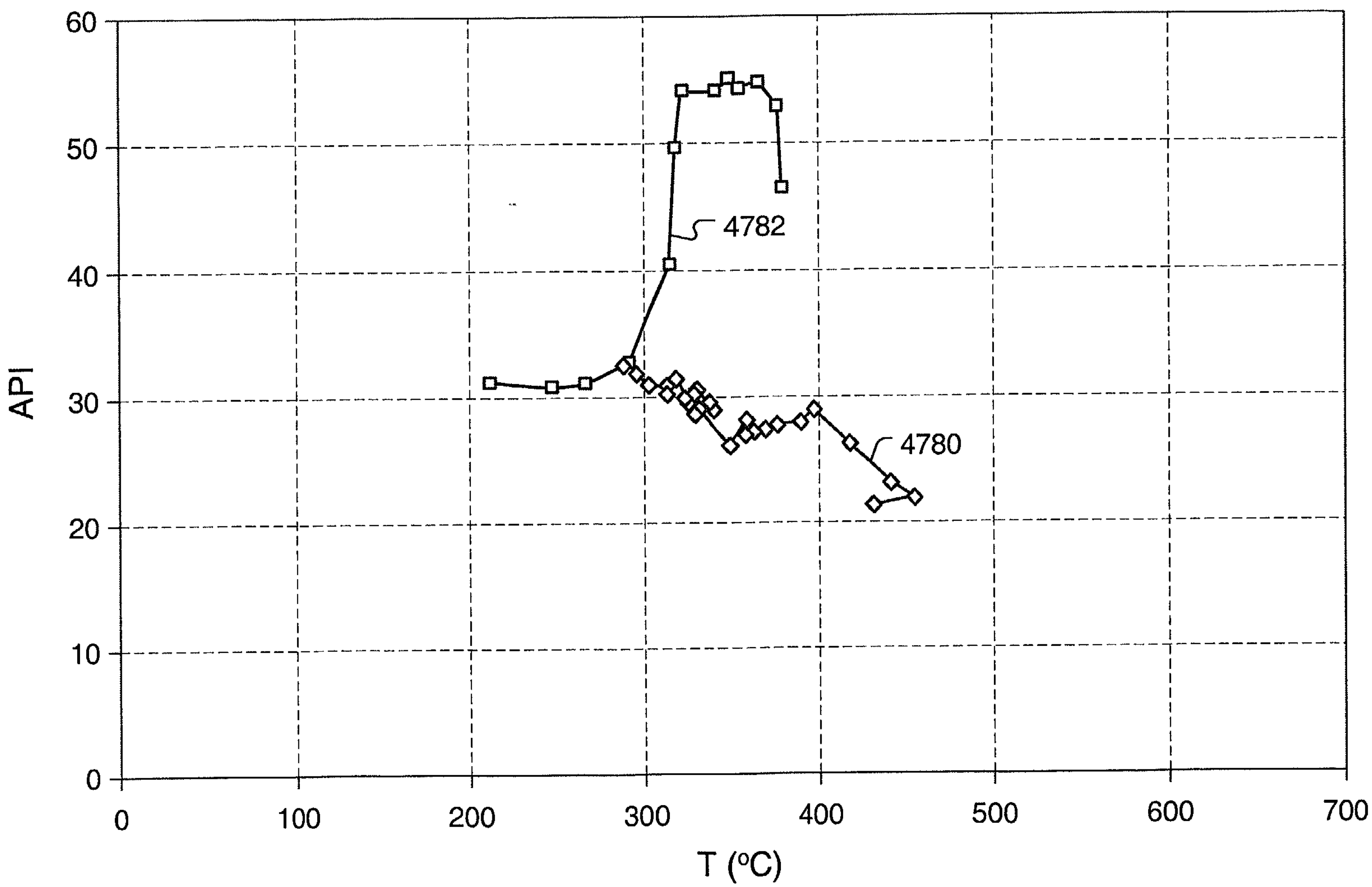


FIG. 174

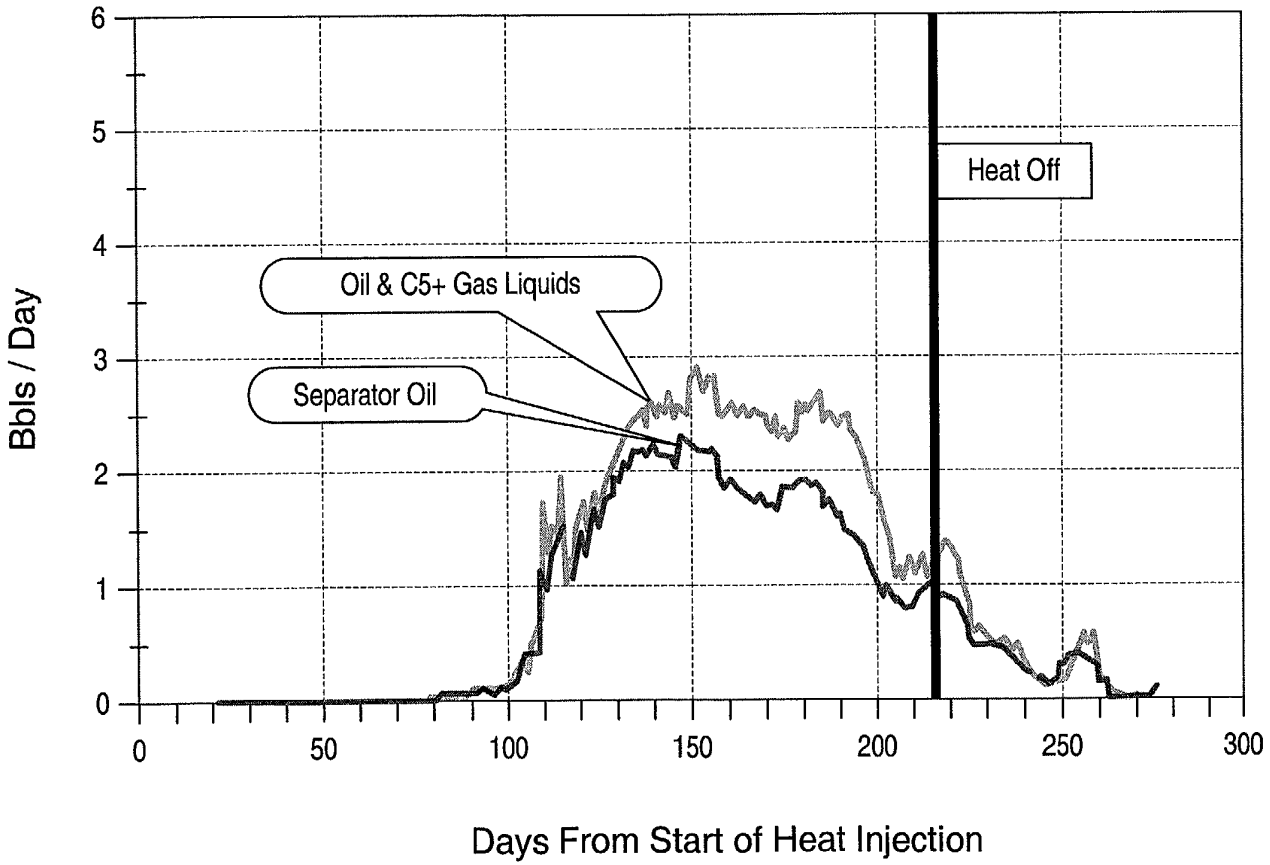

Bbls / Day
6
5
4
3
2
1
0
0
50
100
150
200
250
300
Heat Off
Oil & C5+ Gas Liquids
Separator Oil
Days From Start of Heat Injection

FIG. 175

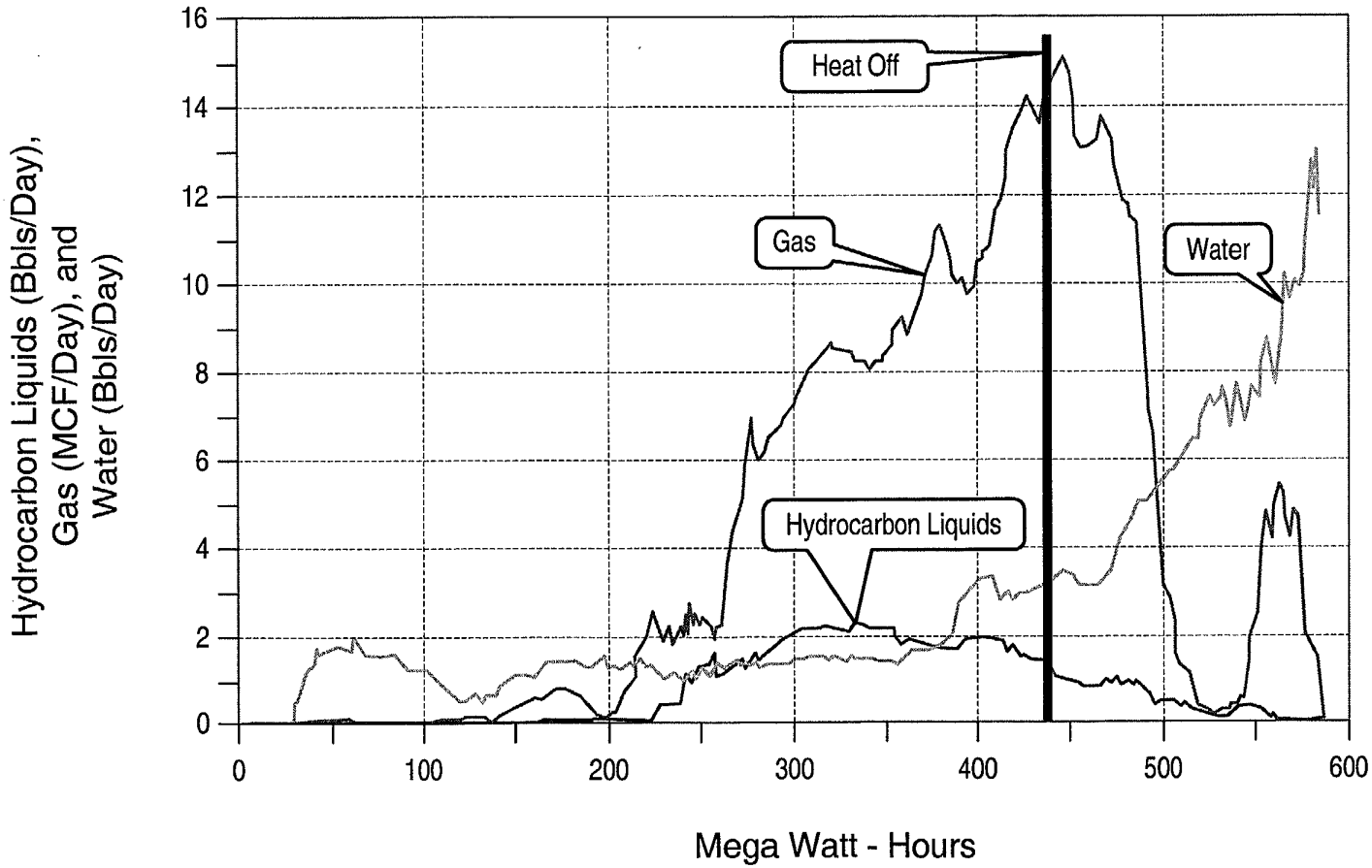


FIG. 176

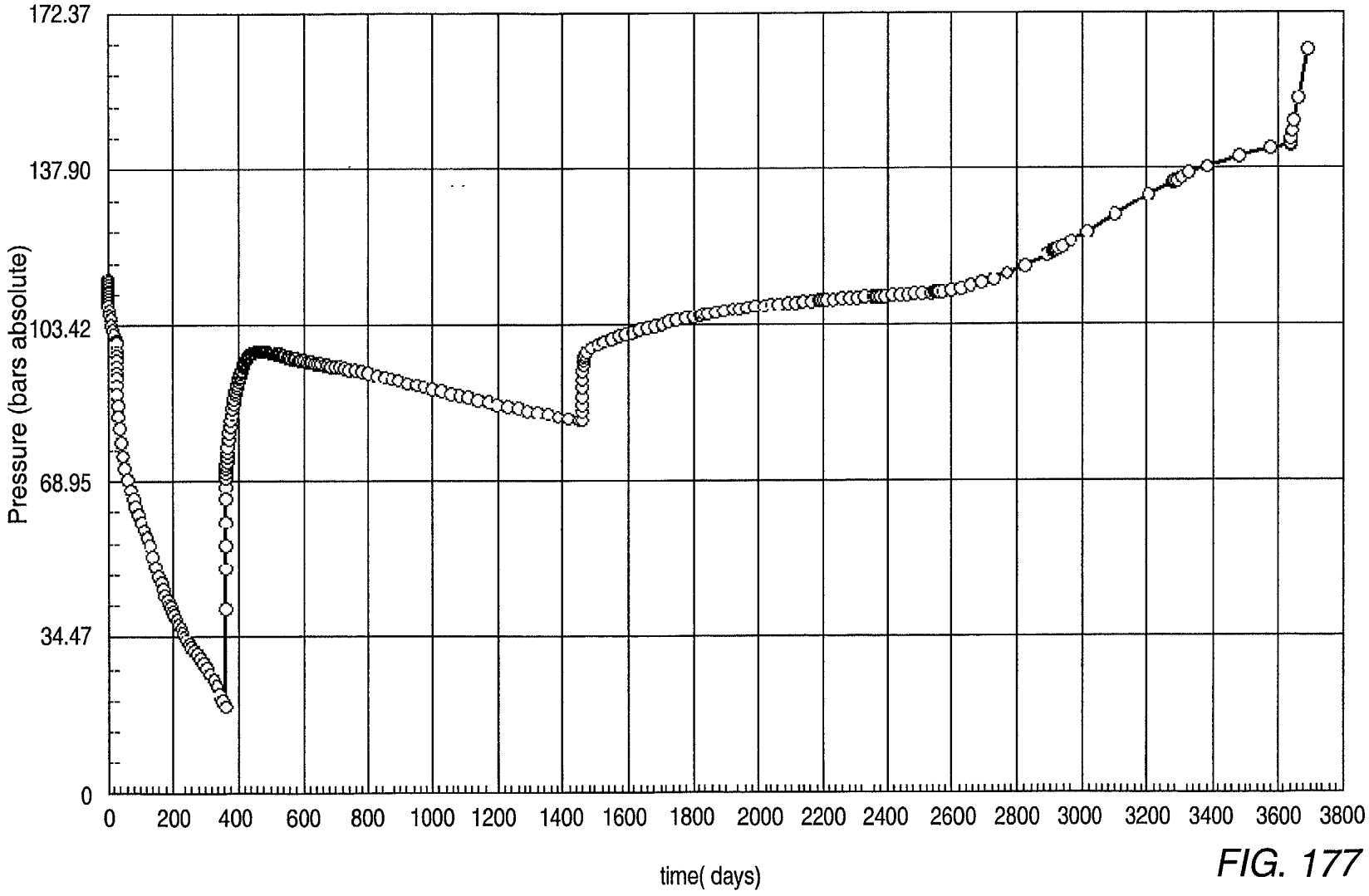

172.37
137.90
103.42
68.95
34.47
0
Pressure (bars absolute)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
3800
time(days)

FIG. 177

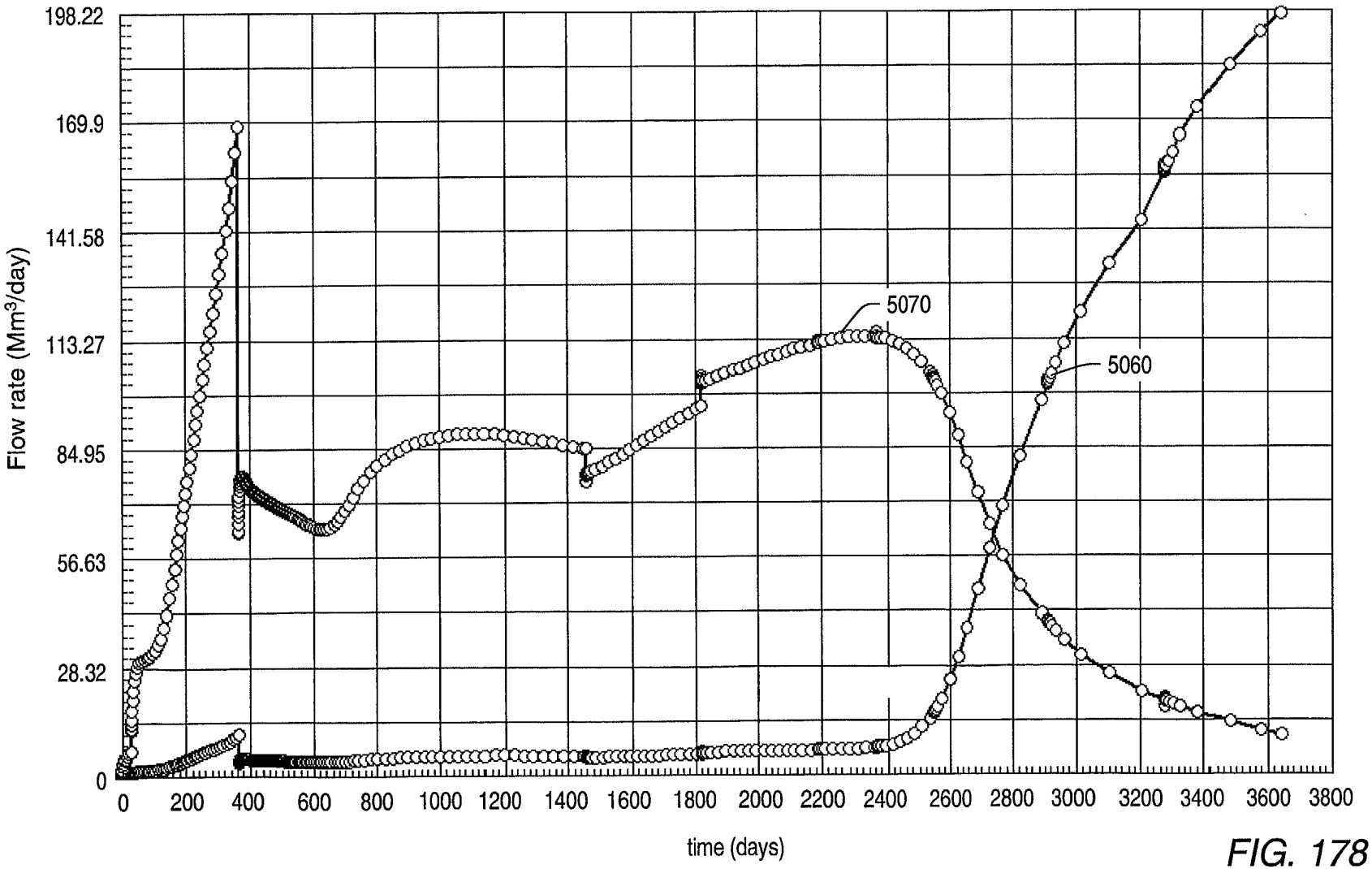

198.22
169.9
141.58
113.27
84.95
56.63
28.32
0
Flow rate (Mm3/day)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
3800
time (days)
5070
5060

FIG. 178

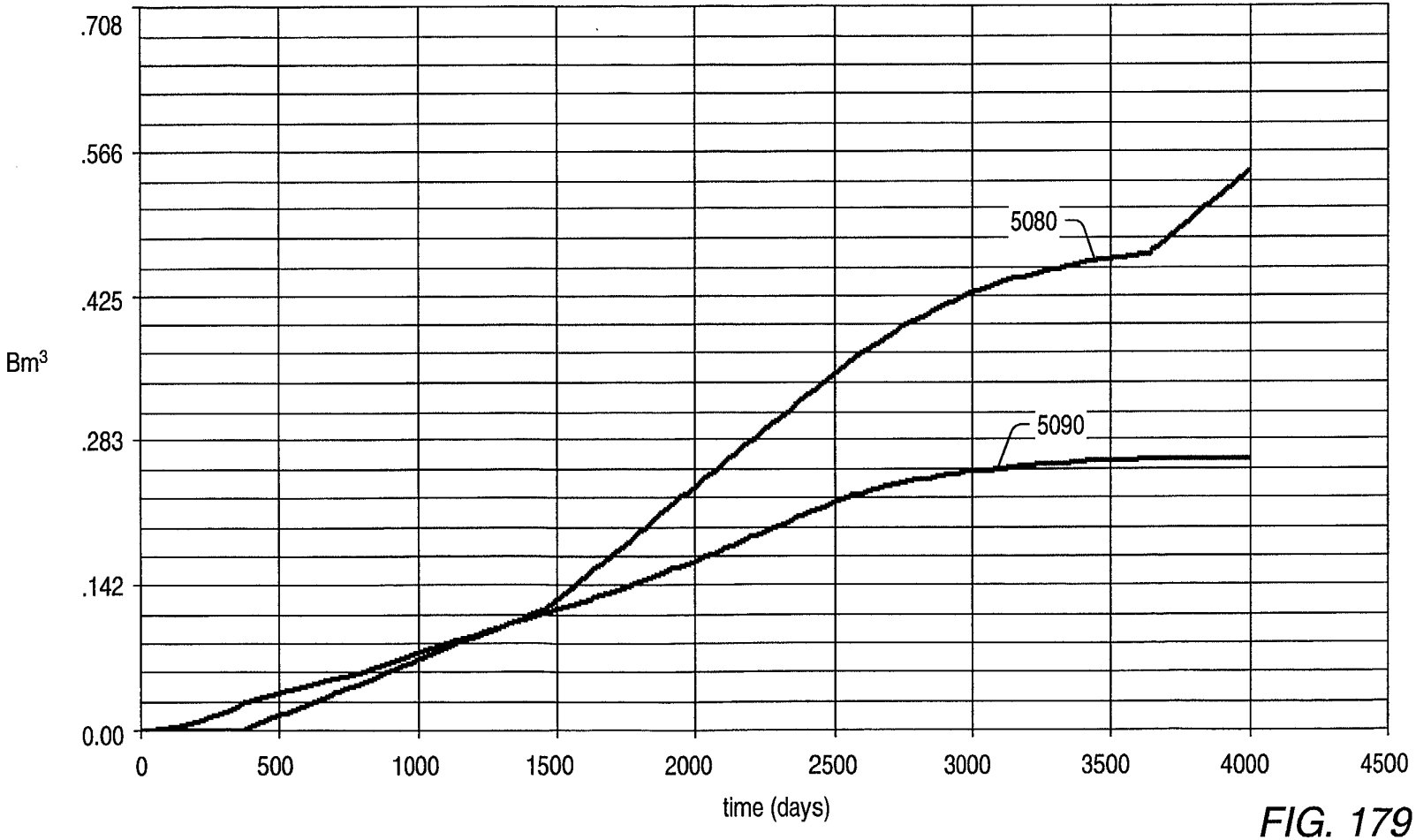

.708
.566
.425
.283
.142
0.00
Bm3
0
500
1000
1500
2000
2500
3000
3500
4000
4500
time (days)
5080
5090

FIG. 179

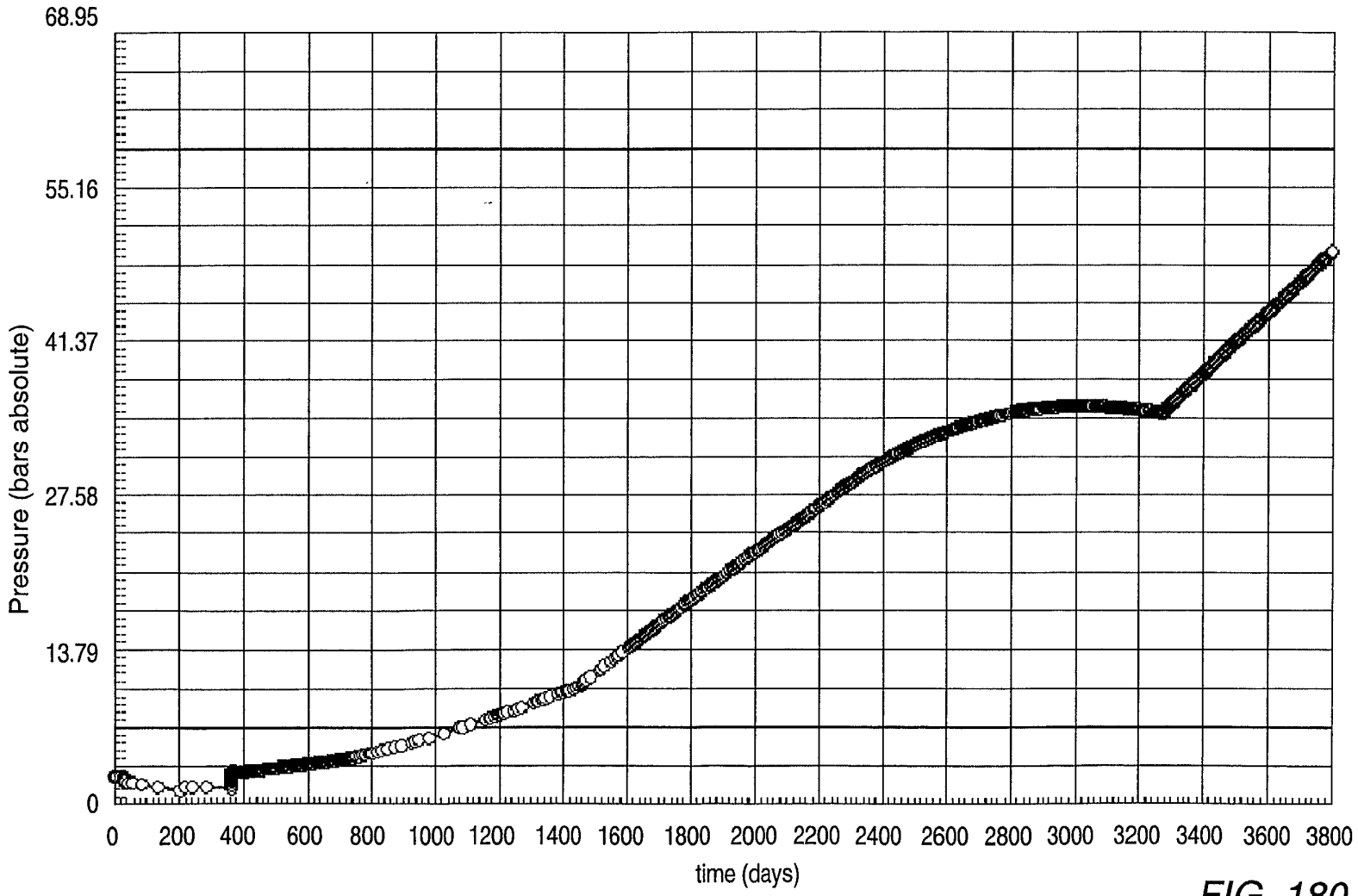

68.95
55.16
41.37
27.58
13.79
0
Pressure (bars absolute)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
3800
time (days)

FIG. 180

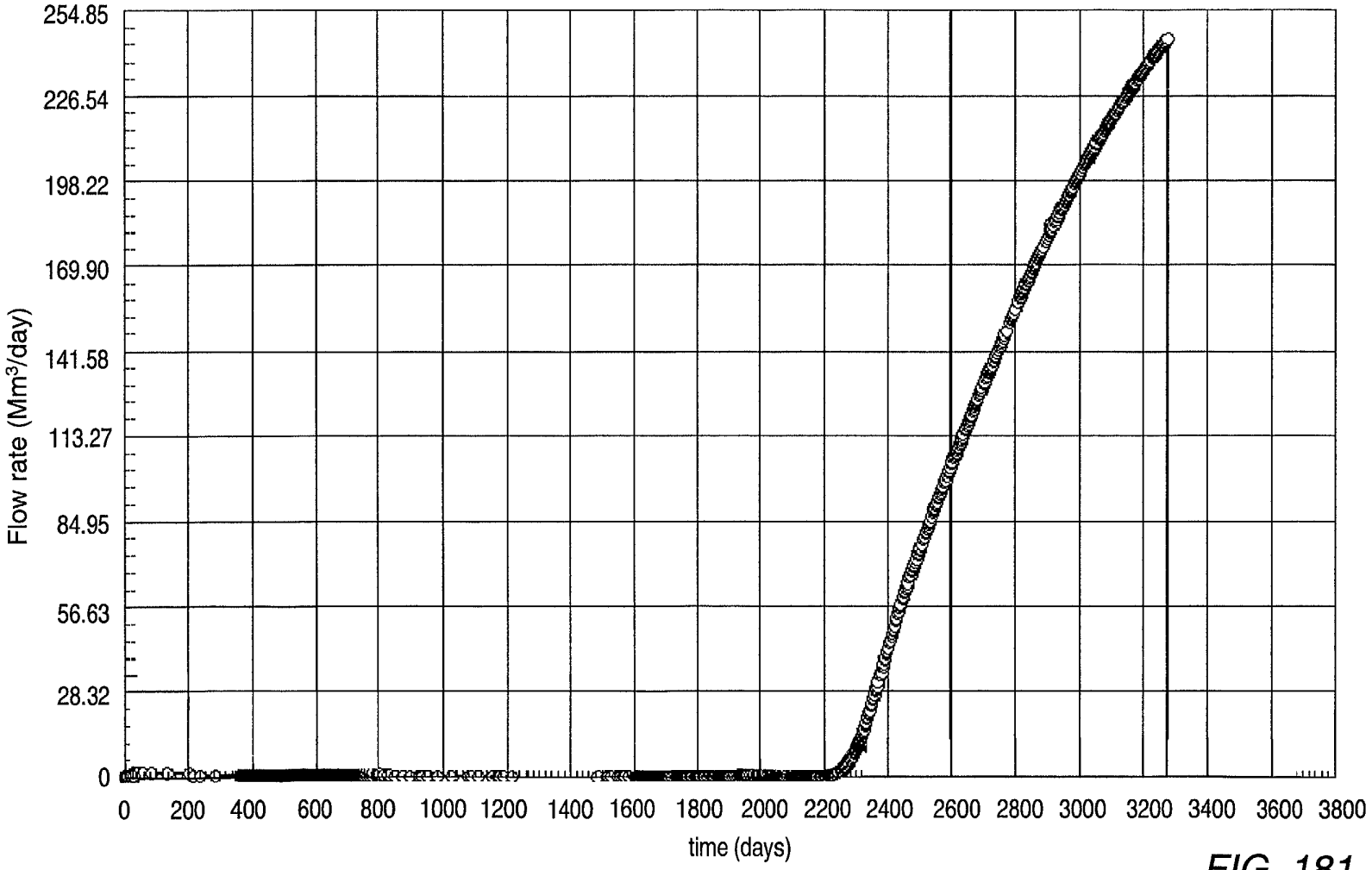

254.85
226.54
198.22
169.90
141.58
113.27
84.95
56.63
28.32
0
Flow rate (Mm3/day)
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800
time (days)

FIG. 181

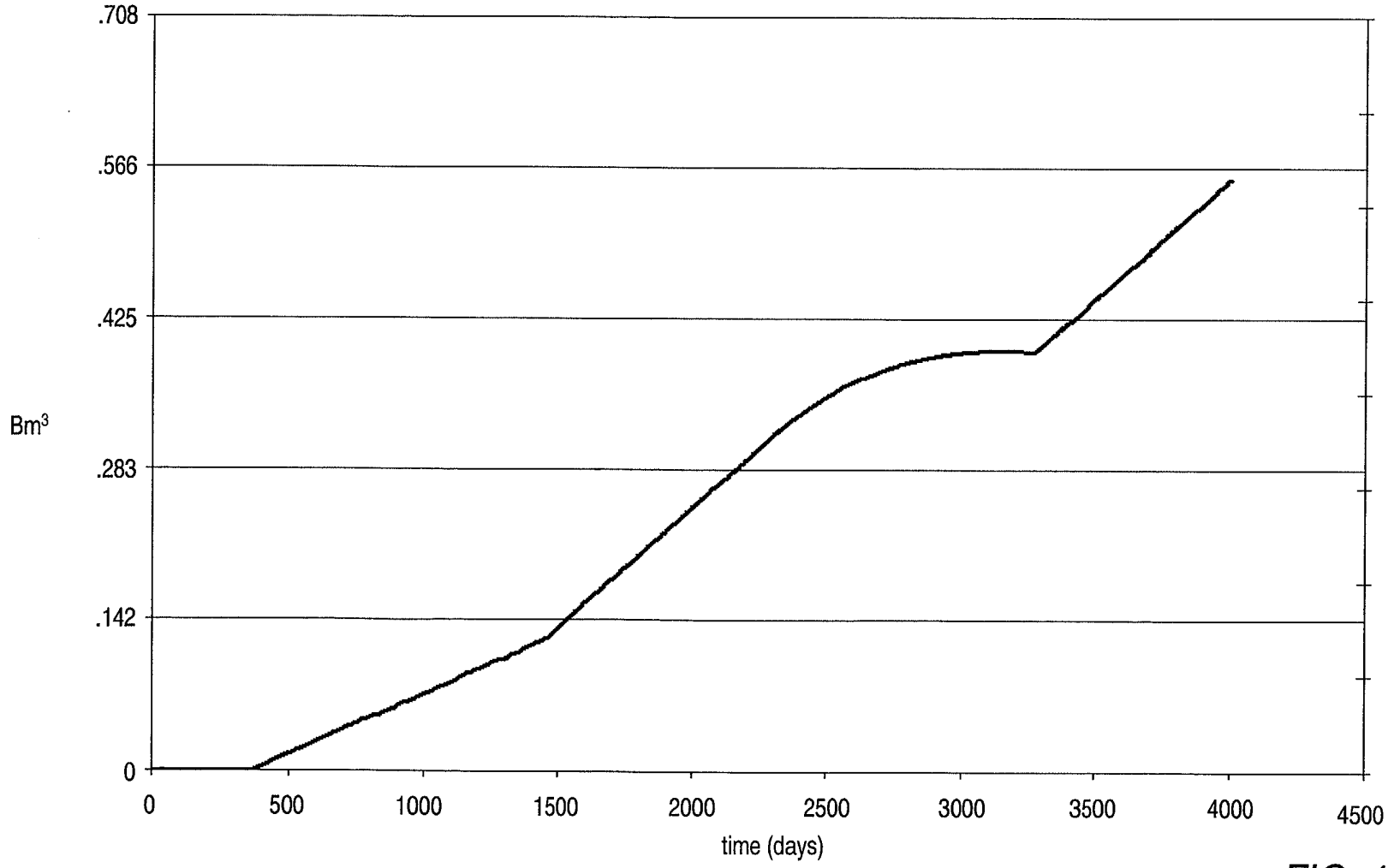

.708
.566
.425
.283
.142
0
Bm3
0
500
1000
1500
2000
2500
3000
3500
4000
4500
time (days)

FIG. 182